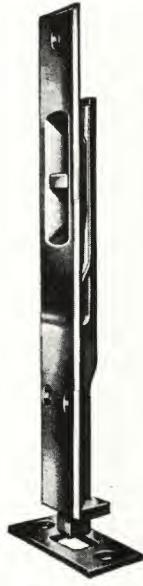


Door Bolts

•No. 135 Flush Door Bolt (For 1-3/8" Doors)

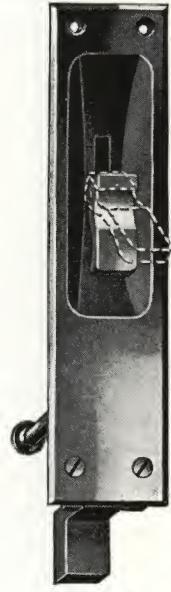
Used with No. 135-0 accordion partition hardware. Furnished with plain keeper as illustrated. Face plate die cast metal, 1-1/4" wide by 7-1/2" high. Movement of bolt, 1". Exposed parts furnished in baked enamel or plated finish as specified. Specify thickness of door, finish of bolt and type of keeper. Weight, each, 1/2 lb.



No. 135

•No. 496 Flush Door Bolt (For Doors 1-3/4" or More in Thickness)

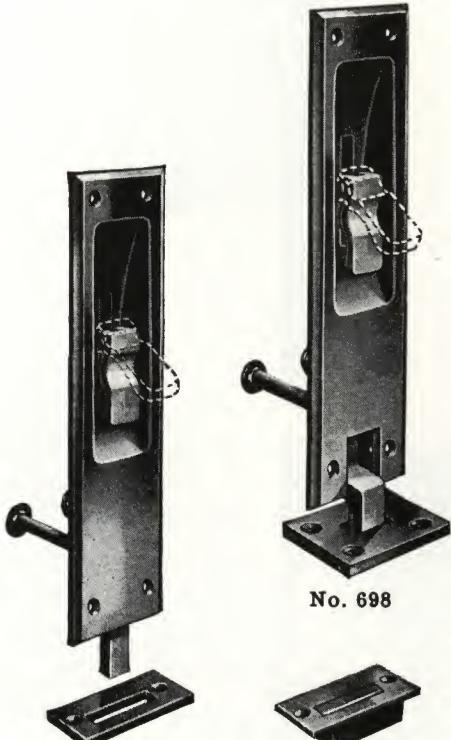
Extremely heavy bolt used with large folding partition doors which do not use floor track. Furnished with plain keeper. Face plate: steel, brass or bronze; 2" wide by 8-3/8" long. Gravity drop-type thumb piece and has a 1" throw. Exposed parts furnished in dead black baked enamel or plated finish as specified. Specify thickness of door and finish of bolt. Weight, each, 1-3/4 lbs.



No. 496

•No. 696 Flush Door Bolt (For Doors 1-3/4" or More in Thickness)

Extremely heavy bolt used with folding partition doors using floor track. Keeper not furnished. Bolt engages in floor track. Face plate: steel, brass or bronze; 2" wide by 8-3/8" long. Gravity drop-type thumb piece, 1" throw. Exposed parts furnished in dead black baked enamel or plated finish as specified. Specify thickness of door and finish of bolt. Weight, each, 1-3/4 lbs.



No. 696

•No. 698 Flush Door Bolt (For Doors 1-3/4" or More in Thickness)

Extremely heavy bolt used with folding partition doors using floor track but requiring bolt to engage in keeper so doors may be locked against movement in any direction. Furnished with plain keeper as illustrated. Face plate: steel, brass or bronze; 2" wide by 8-3/8" long. Gravity drop-type thumb piece, 1" throw. Exposed parts furnished in dead black baked enamel or plated finish as specified. Specify thickness of door and finish of bolt. Weight, each, 1-3/4 lbs.

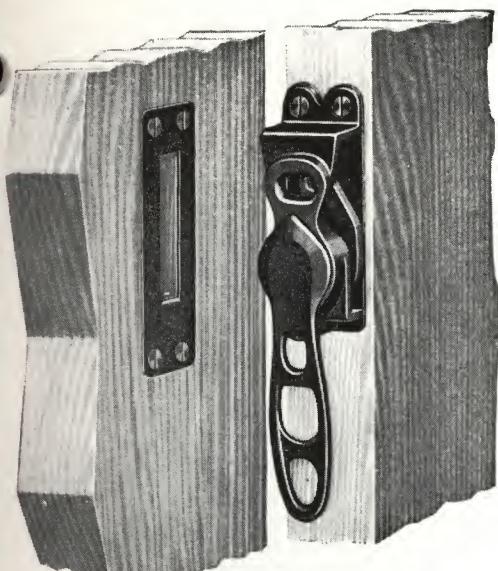


No. 698

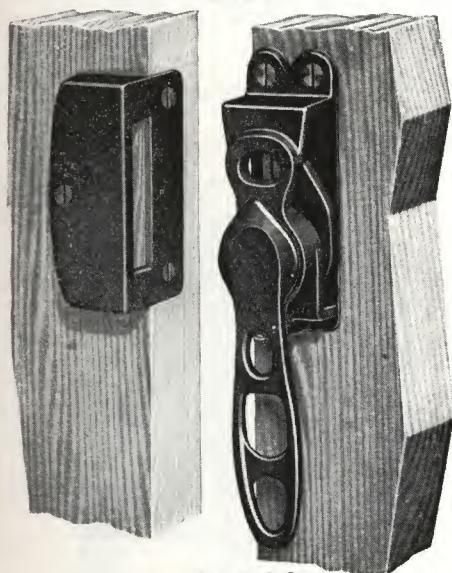
•No. 405 Dustproof Keeper

When specified, furnished at extra cost.
For Nos. 135, 237, 496 and 698 bolts only.

No. 405 Dust-proof Keeper



No. 416-1



No. 416-2



No. 516

Door Bolts and Locks

No. 416 Titite Door Lock

• Use

No. 416-1, for parallel doors 1-3/4" or more in thickness.

No. 416-2, for straight sliding doors of any thickness.

• Construction

Malleable iron.

• Installation

No. 416-1, furnished with flush keeper. Lock attached to edge of door, keeper is inserted into face of other door.

No. 416-2, furnished with surface keeper. Lock attached to face of door, keeper is attached to face of adjoining door or to jamb (in case of single door).

• Finish

Cadmium plated.

• Packed

One in a box with screws.

• Weight

Each: No. 416-1, 1-1/2 lbs.; No. 416-2, 1-3/4 lbs.

No. 516 Parallel Door Bolt and Lock

• Use

For garage doors 1-3/4" to 3" thick operating on parallel track. May be used on single doors by inserting keeper casting in jamb on side wall.

• Construction

Malleable iron and steel.

• Installation

Lock inserted in stile of door, bolt passing entirely through door and into keeper in stile of other door or in jamb (in case of single doors).

Doors should lap each other or jamb at least 2"

• Finish

Gray enamel.

• Packed

One in a box with bolts and screws.

• Weight

Each, 3-1/4 lbs.

Locks and Latches

No. 350 Latch

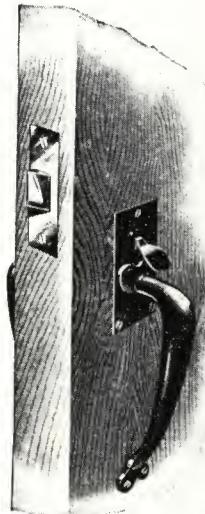
For garage entrance doors. Furnished with two handles and latch thumb lift.

Brass face. Mortise case: 5-5/8" high, 3-3/4" deep, 3/4" thick. Face plate 8" high by 1" wide. From face of door to center of handle, 2-1/2".

Dull brass finish.

Packed one in a box with screws.

Weight, each, 4 lbs.



No. 350 Latch

No. 525 Sliding Door Lock

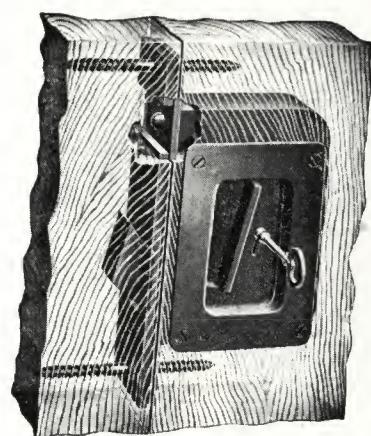
For single or double sliding doors 1-3/4" or more in thickness. Operated from either side of doors.

Latch piece and trip, malleable iron. Steel flush cups. Steel keeper plate. Mortise case: 4-3/4" high, 3-3/4" deep, 7/8" thick. Maximum lap of door over jamb, 1". Twenty-eight changes of keys.

Gray enamel finish.

Packed one lock to a box with screws and template.

Weight, each, 2-3/4 lbs.



No. 525 Lock

No. 550 Cylinder Lock

For garage entrance doors. Furnished with two handles, latch thumb lift and two keys. Made with one cylinder for locking doors from outside only or two cylinders for locking doors from both sides.

Lock face, cylinder and strike, dull bronze. Mortise case, black japan. Mortise case: 5-5/8" high, 3-3/4" deep, 3/4" thick with a 1/2" throw. Face plate of lock 8" high, 1" wide. Face of door to center of handle, 2-1/2".

Handles, gray enamel finish.

Packed one in a box with screws.

Weight, each, 5 lbs.

In ordering, state thickness of door for proper length cylinder, and whether one or two cylinders desired.



No. 550
Cylinder Lock

Flush Pulls



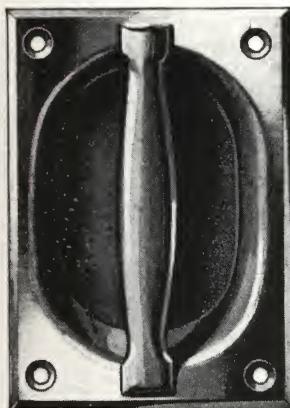
No. 535-4

•No. 535-4 Pull

Designed for use with partition hardware or for any door 1-3/8" or more in thickness. Made of almag, brass or bronze. Length, 5-7/8"; width, 3-3/8"; depth, 1". Weight, each, 3/4 lb.

Available in the following finishes:

- US1D Dead Black
- US3 Bright Brass
- US4 Dull Brass
- US9 Bright Bronze
- US10 Dull Bronze
- US26D Dull Chromium Plate
- Brushed Aluminum



No. 535-5

•No. 535-5 Pull

For any heavy-type door requiring flush handle pull. Made of almag, brass or bronze. Length, 5-3/4"; width, 4-1/4"; depth, 1-5/8". Weight, each, 1-1/2 lbs.

Available in the following finishes:

- US1D Dead Black
- US3 Bright Brass
- US4 Dull Brass
- US9 Bright Bronze
- US10 Dull Bronze
- US26D Dull Chromium Plate
- Brushed Aluminum



No. 770

•No. 770 Pull

For folding partition doors with narrow stiles or for doors with minimum thickness of 1-1/8". Grip drops into door by gravity, flush when not in use; easily pulled out and firmly gripped for manipulation of door. Size, 6" long by 2" wide. Made of malleable iron or solid brass or bronze. Finished in dead black or brass or bronze. Weight, per hundred, 100 lbs.

Flush Pulls

•**No. 70-1 Pull**

For doors up to 1-3/4" thick. Requires 3/4" deep mortise. Size, 4" x 5-7/8". Inside dimensions of cup, 1-1/2" x 3-1/2" x 7/8" deep.

Made of steel.

Packed in bulk, less screws.

Finish, gray enamel.

Weight, each, 3/4 lb.



No. 70-1 and 2

•**No. 70-2 Pull**

For doors over 1-3/4" thick. Requires 1-1/2" deep mortise. Size, 4-1/2" x 7". Inside dimensions of cup, 1-3/8" x 4-1/2" x 1-5/8" deep.

Made of steel.

Packed in bulk, less screws.

Finish, gray enamel.

Weight, each, 1-1/4 lbs.



No. 470

•**No. 470 Pull**

For very heavy doors 1-3/4" or more in thickness. Requires 1-3/4" deep mortise. For doors 1-3/4" thick, back plates must be used; furnished when specified at extra cost. Size, 6-1/2" high by 4-3/4" wide. Inside dimensions of cup, 3-7/8" wide by 4-1/2" high, 1-3/4" deep. Pull, malleable iron.

Back plates, steel.

Packed in bulk, less bolts.

Finish, gray enamel.

Pull weight, each, 3 lbs.

Back plates, weight, each, 1 lb.



No. 670

•**No. 670 Pull**

For elevator doors.

Height, over-all, 4-7/8". Width on face of door, 2-3/8". Width of flange that laps over edge of door, 1-3/16".

Packed in bulk, less bolts.

Polished bronze.

Weight, each, 11 ozs.

Bow Handles



No. 71



No. 81



No. 91

•No. 71 Bow Handle

Two sizes. Steel construction. No. 1, 6-1/2" long; No. 2, 7-3/8" long. Finish, gray enamel. Bolt holes register with No. 70 flush pull. Packed in bulk, less screws. Weight, each, No. 1, 1/4 lb.; No. 2, 1/2 lb.

•No. 81 Bow Handle

Two sizes. Gray iron. No. 1, 6-1/4" long; No. 2, 8" long. Finish, gray enamel. Packed one dozen in box with screws. Weight, each, No. 1, 1/2 lb.; No. 2, 1 lb.

•No. 91 Bow Handle

Steel construction, 6-7/8" long. Holes are for screws and do not register with No. 70 flush pull. Finish, gray enamel. Packed one dozen in box with screws. Weight, each, 1/4 lb.

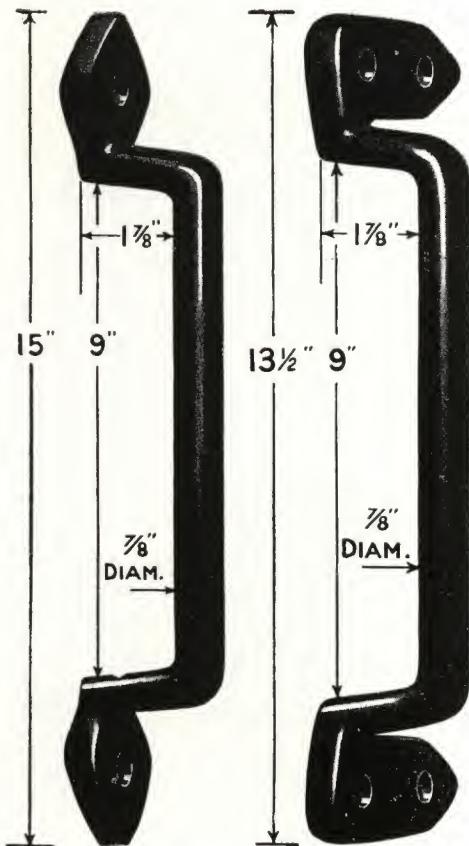
Bow Handles for Heavy Doors

•No. 191 Bow Handle with Straight Pad

Malleable iron. Held to door by 1/2" bolt in each pad extending through door. Bolts not regularly furnished but will be packed if desired. State thickness of door. Projection from face of door, 2-3/4". Finish, gray enamel. Packed in bulk, less bolts. Weight, each, 2-3/4 lbs.

•No. 192 Bow Handle with Offset Pad

Affords more bearing on the door with two 1/2" bolts used in each pad extending through door. Bolts not regularly supplied but can be furnished. State thickness of door. Projection from face of door, 2-3/4". Finish, gray enamel. Packed in bulk, less bolts. Weight, each, 3-1/4 lbs.



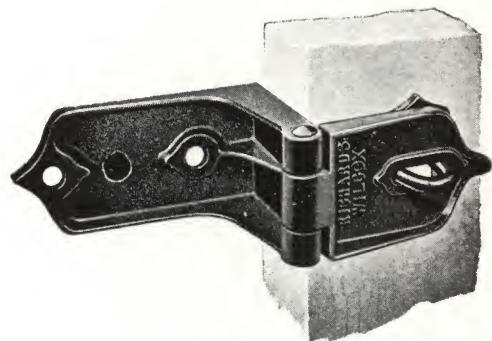
No. 191

No. 192

Hasps and Door Catches

•No. 182 Heavy Hasp

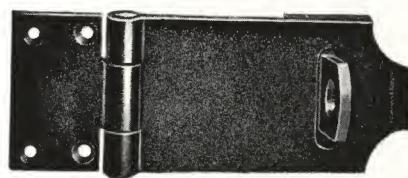
Two sizes: No. 2 for 1-3/4" doors; No. 3 for 2-1/2" to 3" doors. For use with heavy doors as a door bumper, binder, and hasp. Length on wall, 7-1/8". Length of hinged leaf which overlaps door, 5". Furnished with screws for padlock eye. Wall bolts furnished at additional cost if specified. Finish, gray enamel. Packed in bulk, less bolts. Weight, each: No. 2, 3-3/4 lbs.; No. 3, 4 lbs.



No. 182

•No. 183 Heavy Duty Steel Hasp

Two styles. No. 1, pad is reversed. No. 2, pad is regular. Over-all length, 7-1/2"; hinge leaf, 5-1/2"; pad, 2"; width, 3". Finish, gray enamel. Packed 6 in a box, less screws. Weight, each, 1-1/4 lbs.



No. 183-2

•No. 129 Door Catch

Automatic catch for 1" doors. For doors over 1" thick, order No. 129 clips in addition to catch. Screw clip to the face of door and the hook of the catch engages the clip. Gray iron. Finish, gray enamel. Packed one dozen to box, less screws. Weight, per dozen: catch, 5 lbs.; clip, 3 lbs.



No. 129

•No. 139 Padlock Plates

For use on either sliding or swinging garage, barn or warehouse doors. One plate mortised into edge of door and other into jamb. Height, 2-1/2", No. 11 gauge steel. Gray enamel finish. Packed one pair in envelope including screws. Weight, per pair, 1/4 lb.



No. 139

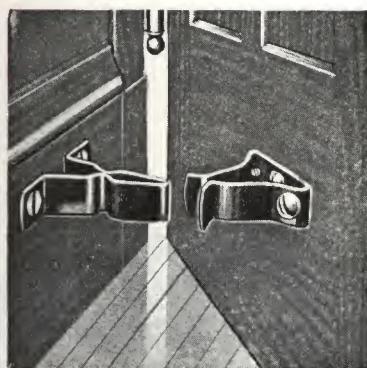
Door Holders



No. 118

•No. 118 Door Holder

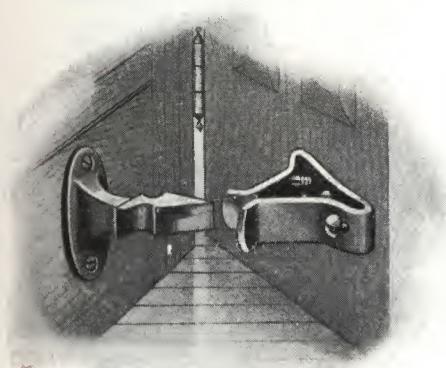
For floor attachment. Holder of malleable iron, clip of special spring metal. Finished in gray enamel or plated unpolished finishes as listed below.* Packed one dozen in box complete with screws. Weight, per dozen, 3-1/2 lbs.



No. 119

•No. 119 Door Holder

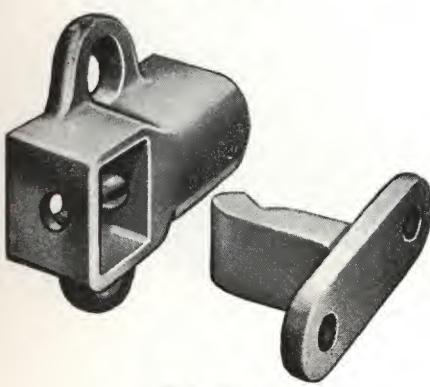
For wall attachment. Holder of steel, clip of special spring metal. Finished in gray enamel or plated unpolished finishes as listed below.* Packed one dozen in box complete with screws. Weight, per dozen, 2-1/2 lbs.



No. 119-1/2

•No. 119-1/2 Door Holder

For wall attachment. Holder of malleable iron, clip of special spring metal. Finished in gray enamel or plated unpolished finishes as listed below.* Packed one dozen in box complete with screws. Weight, per dozen, 3 lbs.



No. 319

•No. 319 Door Holder

For use where there is no space for Nos. 119 and 119-1/2 door holders. Spring holder of malleable iron with steel plunger. Over-all distance from back to back of two parts when engaged is 1-1/8". Length over-all, 2-3/16"; over-all height, 2". Finish, gray enamel but can be furnished galvanized on special orders. Packed in bulk with screws. Weight, each, 1/4 lb.

*Unpolished Bronze or Brass available on special order.

Stay Rollers

•**No. 55 Lag Screw Barn Door Stay Roller
For Inside Doors Only**

Wheels, gray iron, 2" diameter. Lag screw, 7/16" diameter, extends 5-3/4" below wheel. Finish, gray enamel. Packed in bulk. Weight, each, 3/4 lb.



No. 55

•**No. 835 Lag Screw Stay Roller**

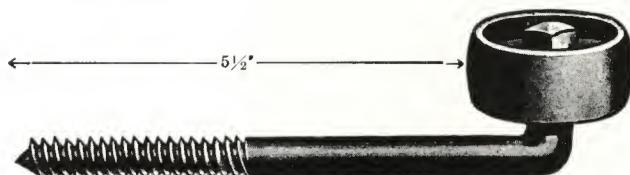
Wheels, gray iron, 2" diameter. Lag screw, 3/8" diameter, extends 2-1/2" below wheel. Finish, gray enamel. Packed in bulk. Weight, each, 8 oz.



No. 835

•**No. 57 Lag Screw Barn Door Stay Roller
For Outside Doors Only**

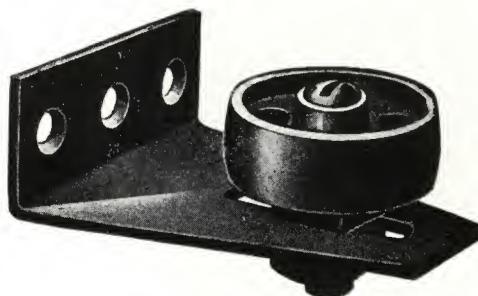
Wheels, gray iron, 2" diameter. Lag screw, 7/16" diameter. Finish, gray enamel. Packed in bulk. Weight, each, 3/4 lb.



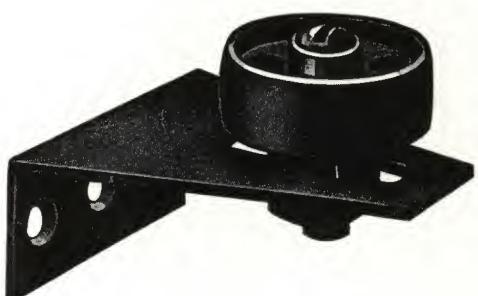
No. 57

•**No. 53 "Handy" Barn Door Stay Roller**

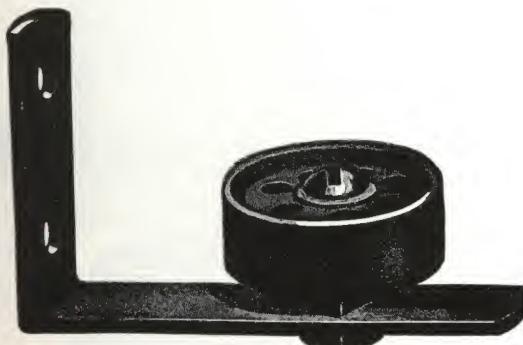
For inside or outside doors, 1-1/2" to 2-1/2" thick. Adjustable and reversible. Wheels, gray iron, 2" diameter. Steel frame, 4" long, 1-1/2" high, 3-5/8" wide. Finish, gray enamel. Packed in bulk. Weight, each, 1 lb.



No. 53



Barn Door Stay Rollers



No. 58

•No. 58 "OK" Barn Door Stay Roller

For inside or outside doors, 1-1/2" to 2-3/4" thick. Adjustable and reversible. Wheels, gray iron, 2" diameter. Steel frame, 4-1/2" long, 2-1/2" high, 1-1/4" wide. Finish, gray enamel. Packed in bulk, less screws. Weight, each, 1 lb.



No. 66

•No. 66 Barn Door Stay Roller

For inside doors only. Can be fastened to concrete floors with expansion bolts. Wheels, gray iron. Finish, gray enamel, less bolts or screws.

Size	Wheels, Diameter	Steel Frame			Weight, Each
		Length	Height	Width	
No. 1	2"	3-7/8"	2"	1-3/8"	3/4 lb.
No. 2	3-1/4"	6-1/2"	3-1/2"	2"	1-1/2 lbs.



No. 67

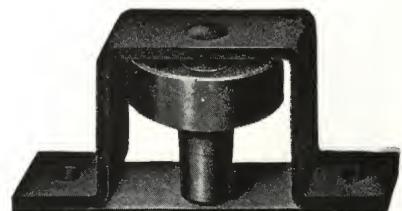
•No. 67 "Adjustable" Barn Door Stay Roller

Adjustable for doors up to 2-1/4" thick. Wheels, gray iron, 2" diameter. Steel frame, 3-7/8" long, 1-3/8" wide, projects 3-1/4". Finish, gray enamel. Packed in bulk, less screws. Weight, per hundred, 84 lbs.

Stay Rollers

•No. 54 Barn Door Stay Roller

Wheel, gray iron, 2-1/2" diameter. Covered with steel frame, 6" long, 2-3/4" high, 2" wide. Finish, gray enamel. Packed in bulk, less bolts or screws. Weight, each, 2 lbs.



No. 54

•No. 59 Warehouse Door Stay Roller

With Back Brace

Extra high to suit doors on incline track. Wheel, gray iron, 3-1/4" diameter. Steel frame, 2-1/4" wide, 3/16" thick. Distance from floor to center of wheel, 8-1/2". Over-all height, 9-1/2". Finish, gray enamel. Packed in bulk, less bolts or screws. Weight, each, 3-3/4 lbs.



No. 59

No. 60 Warehouse Door Stay Roller

Without Back Brace

Same as No. 59 above except that it is lower and back brace is removed. Frequently imbedded in concrete floors. Wheel, gray iron, 3-1/4" diameter. Steel frame, 2-1/4" wide, 3/16" thick. Distance from floor to center of wheel, 6-3/4". Over-all height, 7-1/2". Finish, gray enamel. Packed in bulk, less bolts or screws. Weight, per hundred, 275 lbs.



No. 60

•No. 68 Stay Roller

Adjustable and Reversible

Adjustable for doors up to 3" thick. Wheel, gray iron, 2-1/2" diameter. Heavy steel frame, 2" wide, 7-5/8" high, 1/4" thick. Wheel stands 4-1/2" high. Finish, gray enamel. Packed in bulk, less bolts or screws. Weight, each, 3 lbs.



No. 68

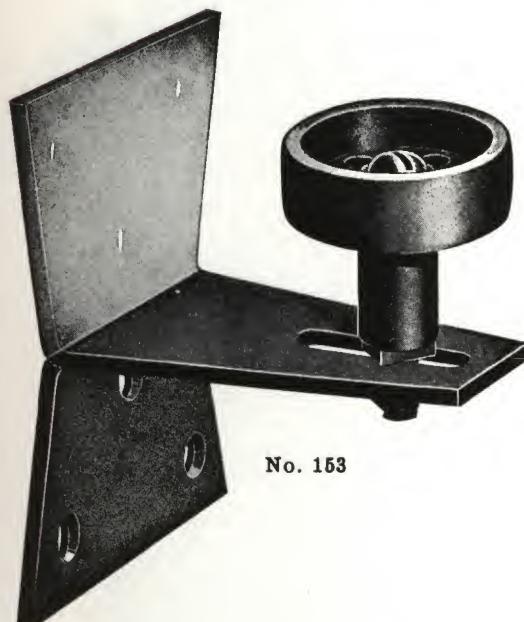
Warehouse Door Stay Rollers



No. 151

•No. 151 "Safety" Stay Roller

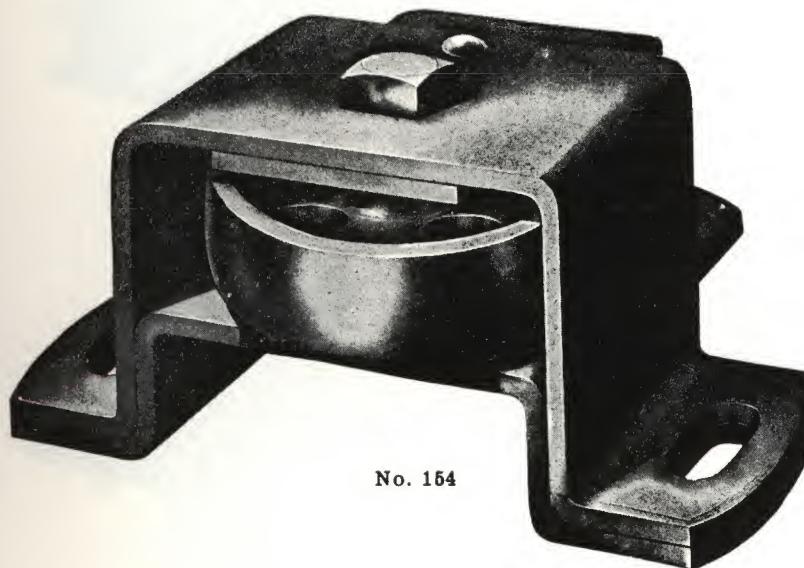
Wheel protected by gray iron cover. Wheel, gray iron, 2" diameter. Finish, gray enamel. Packed in bulk, less bolts or screws. Weight, each, 1-1/4 lbs.



No. 153

•No. 153 Warehouse Stay Roller

Adjustable and reversible for inside or outside doors 1-1/2" to 3" thick. Wheel, gray iron, 2-1/2" diameter. Steel frame. Finish, gray enamel. Packed in bulk, less bolts or screws. Weight, each, 2-1/4 lbs.



No. 154

•No. 154 Heavy Warehouse Stay Roller

For heavy warehouse and freight-house doors. Wheel, gray iron, 3-1/2" diameter. Heavy steel frame with slotted screw holes provides means for adjustment. 7" long, 3" high, 5" wide. Finish, gray enamel. Packed in bulk, less bolts. Weight, each, 4-1/2 lbs.

Floor Guides

•No. 372 Door Guide

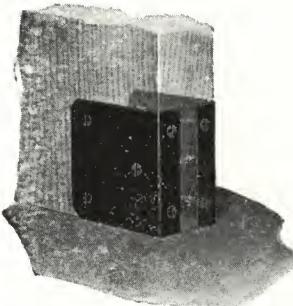
For use with flush or parallel garage doors with concrete or wood floors. Holds bottom of door close to wall in open or closed position. When used with concrete floor, base should be set into concrete about $3/4$ ". Height, 2"; thickness, $1/4$ "; width, 6". Finish, gray enamel. Packed with screws. Weight, each, 1 lb.



No. 372

•No. 102 - 72 Bumper Shoes

To protect the corners of wood doors where they come in contact with binders, bumpers, and guides. 16 gauge steel. 3-1/2" high, 3-1/2" wide, $3/4$ " lip. Finish, gray enamel. Packed in bulk, less screws. Weight, per hundred, 50 lbs.



No. 102 - 72

•No. 172 Adjustable Parallel Door Floor Guides

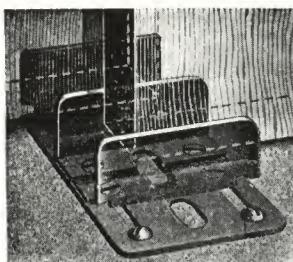
Two sizes for use with parallel sliding doors 1-3/4" to 3" thick.

No. 1 for double parallel doors.

No. 2 for triple parallel doors.

Height, 2-3/8".

Suitable with concrete or wood floors. With concrete floors, base should be set into the concrete about $3/4$ ". Finish, gray enamel. Weight, No. 1, each, with screws, 5 lbs.; No. 2, each, with screws, 7 lbs.



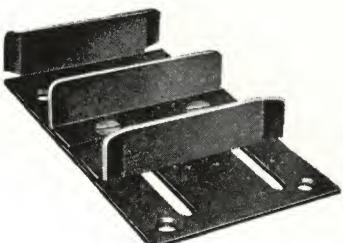
No. 172-1



No. 172-2

•No. 173 Adjustable Parallel Door Floor Guide

For light weight doors $3/4$ " to 2-3/4" thick. Similar to 172-1 except that it is of much lighter construction. Height, 1-5/16". Finish, gray enamel. Weight, each with screws, 1-1/2 lbs.



No. 173

Floor Center Guides and Stops

NOTE: Bottom of doors which come in contact with guides should be protected by steel bumper shoes which must be ordered separately.

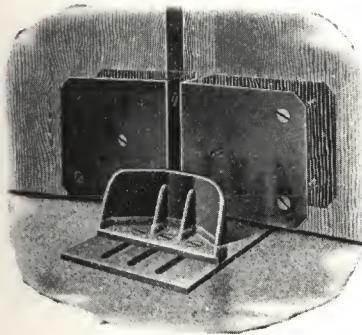


No. 171

•No. 171 Floor Center Stop

Three sizes for pairs of sliding doors: No. 2 for doors 2" thick; No. 2-1/4 for doors 2-1/4" thick; No. 3 for doors 3" thick.

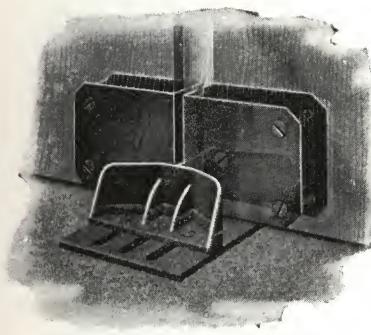
Can be fastened to floor or imbedded in concrete. Made of gray iron. Height, 2-1/2". Finish, gray enamel. Weight, per hundred, No. 2, 350 lbs.; No. 2-1/4, 380 lbs.; No. 3, 400 lbs. Packed in bulk, less bolts.



No. 271

•No. 271 Adjustable Floor Center Door Guide

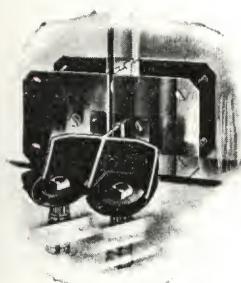
For pairs of sliding garage doors 1-3/4" to 3" thick with concrete or wood floors. With concrete floors the base should be set into the concrete about 3/4". Made of steel and gray iron. Height, 1-7/8". Finish, gray enamel. Weight, per hundred, 255 lbs. Packed in bulk with wood screws and expansion shields.



No. 371

•No. 371 Adjustable Floor Center Door Guide and Stop

For pairs of sliding doors 1-3/4" to 3" thick with concrete or wood floors. When used with concrete floors the base should be set into concrete about 3/4". Made of steel and malleable iron. Height, 1-15/16". Finish, gray enamel. Weight, per hundred, 230 lbs. Packed in bulk with wood screws and expansion shields.



No. 571

•No. 571 Adjustable Floor Center Door Guide and Stop

For pairs of sliding doors 1-3/4" thick or over on either wood or concrete floors. Not necessary to set guide proper into concrete. Malleable iron. Two pieces make it adjustable. Height, 1-1/2". Expansion bolts furnished for attaching. Finish, gray enamel. Weight, per hundred, 230 lbs.

Door Guides, Stops and Binders

NOTE: Bottom of doors which come into contact with guides should be protected by steel bumper shoes which must be ordered separately.

•No. 671 Heavy Warehouse Door Guide

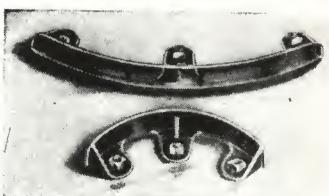
Designed for severe service. Adjustable for extra heavy doors 1-3/4" to 3-1/2" thick. Consists of two heavy cast iron guides which bolt to floor on each side of door and removable steel center stop piece. Expansion bolts not included. Finish, gray enamel. Packed in bulk. Weight, each, 10-1/2 lbs.



No. 671

•No. 771 Door Guide

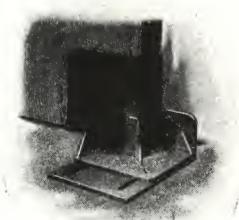
For four-fold garage doors of any thickness equipped with electric operator. Two malleable iron pieces, one 18" wide, the other 10-3/4" wide. On out opening doors place long piece on inside and short piece on outside of opening. Lag screws furnished for attaching. Finish, gray enamel. Weight, each, 6-1/2 lbs.



No. 771

•No. 272 End Door Guide and Stop

For garage doors 1-3/4" to 3" thick with wood or concrete floors. With concrete floors, base should be set into concrete about 3/4". Steel and gray iron. Height, 1-15/16". Finish, gray enamel. Packed with wood screws and expansion shields. Weight, each, 2 lbs.



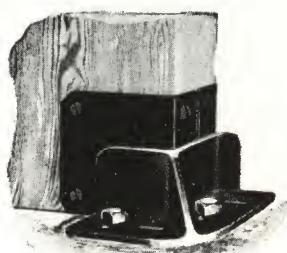
No. 272

•No. 572 End Stop and Binder

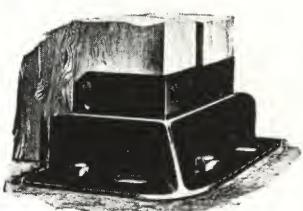
Made in three sizes:

- No. 1, for straight sliding doors, any thickness.
- No. 2, for two parallel sliding doors 1-3/4" to 2" thick.
- No. 3, for two parallel sliding doors 2-1/4" to 3" thick.

Height, all sizes, 2-1/4". Door receiving space: No. 1, 2" x 2"; No. 2, 4" x 4"; No. 3, 5-1/2" x 5-1/2". Malleable iron. Reversible for right or left hand. Adjustable to and from wall. Finish, gray enamel. Packed in bulk, less screws. Weight, each: No. 1, 1-3/4 lbs.; No. 2, 3 lbs.; No. 3, 4 lbs.



No. 572-1



No. 572-2 or 572-3



No. 736 Door and Floor Guide

Guides and Tracks

•No. 736 Floor Guide Track

Especially desirable for parallel doors. Can be set into concrete or wood floors. Composed of two steel strips, assembled with space between, making a groove through which the door guide slides. Heavy steel, $3/8" \times 3-1/2"$. Finish, gray enamel. Weight, per foot, 9 lbs. Packed less screws.

•No. 736 Door Guide

Steel, $3/16" \times 4"$. Bolts spaced on 24" centers. In ordering, state thickness and width of door; whether single, double, or triple parallel doors; width of opening; and always send floor plan. Weight, per foot, $2-1/2$ lbs. Packed less screws.

If both floor guide and door guide are desired specify floor guide track and door guide desired.

• • • • • • • • • •

•No. 738 Guide Plates

For Single, Double, or Triple Doors

Attached near each end of door making two points of contact between plates and track. Steel, 6" wide, 11" high, $1/4"$ thick. Dado, $3/4" \times 3/4"$, cut out of bottom of door along inside face providing runway for track. Weight, each, $4-3/4$ lbs. Packed less screws.

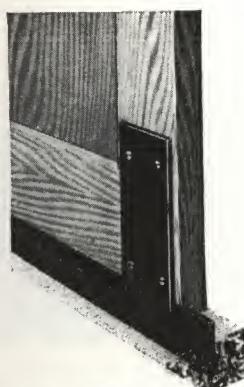
•No. 536 Door Guide Tracks

For Single, Double, or Triple Doors

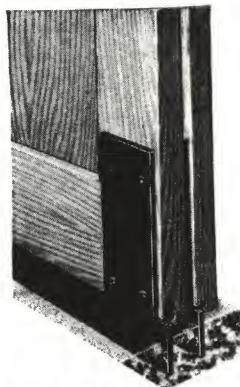
Projects above floor but doesn't interfere with driving in or out of garage.

Single track supplied with anchors which can be fastened in place while pouring concrete. Spacing of double and triple tracks can be adjusted for any thickness doors. Weight, per foot: No. 1, 5 lbs.; No. 2, 10 lbs.; No. 3, 15 lbs. Packed less screws.

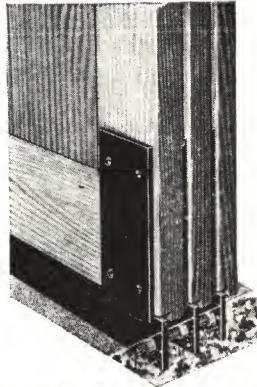
If both 738 guide and 536 door guide tracks are desired specify No. 738 x 536 plus the number of doors—single, double or triple.



No. 738 x 536 for Single Door



No. 738 x 536 for Double Doors



No. 738 x 536 for Triple Doors

Door Binders

•No. 89 Adjustable Door Binder and Stop

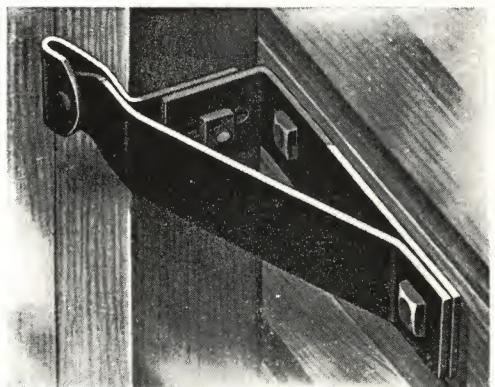
For doors 1-3/4" to 3" thick. Three-piece construction, base 3/16" thick, brace 1/8" thick by 1-3/4" wide. Attached with 7/16" lag screws or bolts.

End is flared to receive door. May be used at front or back of door.

Finish, gray enamel.

Packed two in a box with screws.

Weight, per hundred, 179 lbs.



No. 89

•No. 69 Steel Bumper

Steel, 1/4" thick by 2" wide for any size door. Finish, gray enamel. Packed in bulk. Weight, per hundred, 110 lbs.



No. 69

•No. 82 Steel Binder

Steel, 1/4" thick by 2" wide for seven thicknesses of doors. Finish, gray enamel. Packed in bulk.

Catalog No.....	82-1	82-2	82-3	82-4	82-5	82-6	82-7
Thickness of Door	1-1/2"	1-3/4"	2"	2-1/4"	2-1/2"	2-3/4"	3"
Weight, Ea., Lbs.	1-1/2	1-1/2	1-3/4	1-3/4	1-3/4	2	2

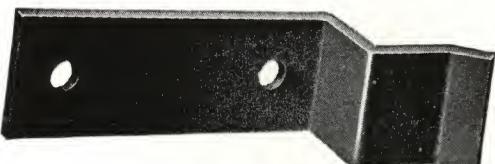


No. 82

•No. 102-95 Steel Binder

Steel, 3/8" thick by 3-1/2" wide for doors 1-3/4" or 2-1/2" thick. Attached with two bolts. Finish, gray enamel. Packed in bulk.

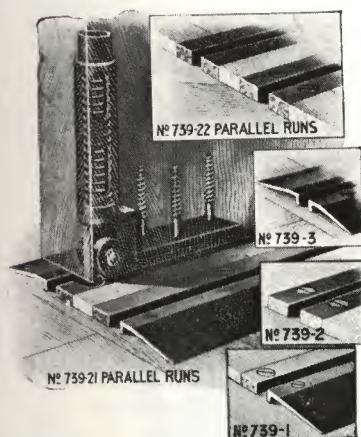
Catalog No.....	102-95-2	102-95-3
Thickness of Door.....	1-3/4"	2-1/2"
Weight, Each.....	5 lbs.	5 lbs.



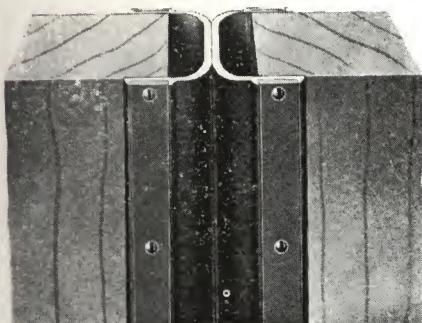
No. 102-95



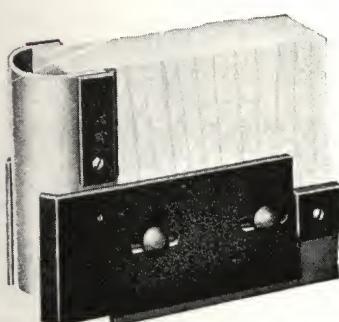
No. 739-1 Floor Guide



No. 739 Floor Guide Tracks



No. 216-1, 4, 5 Weatherstrip for Vertical Edge of Doors



Steel Protective Plates Prevent Weatherstrips from Being Damaged by Floor Guides

•No. 739-1 Floor Guide

For doors 1-3/8" and over.

Number of guides should equal number of hangers used on doors.

Should be located directly in line with hangers on folding doors. Rollers held in contact with the guide by light spring pressure; swivels when used with folding doors. Finish, gray enamel. Wrapped singly with screws. Weight, each: No. 739-1, 1 lb.

•No. 739 Floor Guide Tracks

Used in connection with No. 237 installations and sliding parallel doors and No. 739-1 guides only.

No. 739-3 when set on top of floor forms raised threshold with beveled strip on each side. When more than one door is used as parallel or flush doors, flat track is used in center, the space between filled with 3/8" hardwood flooring. If room has 3/8" flooring, beveled track can be left out and only flat track used, which should be put in place before floor is laid.

When ordering, send sketch or floor plan of track with dimensions. State whether to be raised or flush threshold. Give number of doors. Parallel or flush doors require two guides to each door; accordion doors, one to each door.

Finish, gray enamel.

Cat. No.	Description	Weight per Foot
739-1-TK	Bevel and flat, single door.....	3/4 lb.
739-21-TK	Bevel and flat, two doors.....	1-1/2 lbs.
739-31-TK	Bevel and flat, three doors.....	2 lbs.
739-2-TK	Flat track, single door.....	1 lbs.
739-22-TK	Flat track, two doors.....	2 lbs.
739-32-TK	Flat track, three doors.....	3 lbs.
739-3-TK	Bevel track, single door.....	1/2 lb.

No. 216 Rubber Weatherstrip

•No. 216-1, 4, 5 Vertical Rubber Weatherstrip

For center of opening containing two hinged doors or center of four-door sliding-folding opening. For doors 1-3/4" to 3" thick.

Cat. No.	Door Thick.	Material	Color
216-1	1 3/4" to 3"	Neoprene	Gray
216-4	1 3/4" to 2 1/4"	Neoprene	Gray
216-5	2 1/4" to 3"	Neoprene	Gray

Neoprene will be furnished unless otherwise specified.

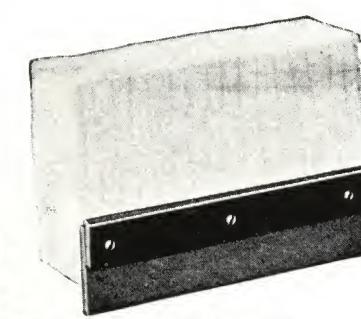
The Neoprene type has great resistance against oil, gasoline, sunlight, heat and cold. Which is ideal for all industrial and commercial applications.

•No. 216-2 Bottom Edge Rubber Weatherstrip

For attachment to bottom of door; 3/4" space between bottom of door and floor is recommended.

Consists of one gray enameled steel bar and a heavy neoprene rubber strip 2-1/2" wide.

Steel protective plates for lower corner of door recommended when floor guides are used at center of doorway.



No. 216-2 Weatherstrip for Bottom Edge of Doors with Steel Bars

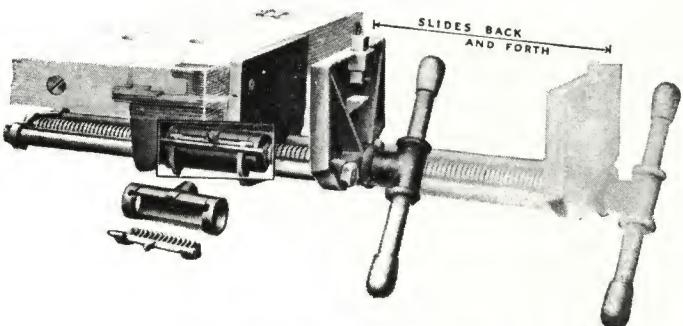
Woodworking Vises

•Two Styles

No. 430S for rapid action, sliding vise.

Equipped with quick acting two piece cam operated nut.

No. 630S for continuous action screw operation.



No. 430S Quick Acting Vise

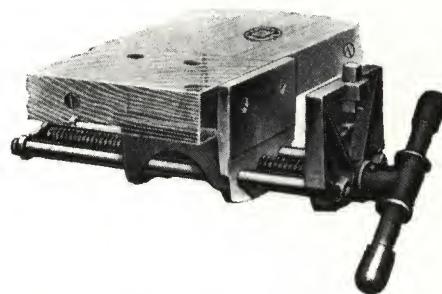
•Three Sizes

Both styles above made in three sizes with stop in jaw.

No. 1—For bench tops up to 1-3/4" thick. Jaws, 7" wide, 4" deep, open 10"; screw 1" diameter, 4 threads to the inch.

No. 2—For bench tops 1-3/4" to 3" thick. Jaws, 10" wide, 5" deep, open 12"; screw 1" diameter, 4 threads to the inch.

No. 3—For bench tops up to 2-1/2" thick. Jaws, 7" wide, 4-3/4" deep, open 10"; screw 1" diameter, 4 threads to the inch.



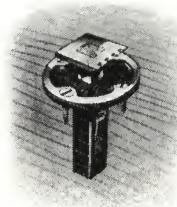
No. 630S Continuous Action Vise

•Construction

Jaws, gray iron with working surfaces ground and finished. Guide rods, cold rolled steel. Ends connected by malleable iron yoke.

No. 430 quick acting nut, nut proper, phosphor bronze; nut sleeve, malleable iron.

No. 630 nut, solid cast iron.



No. 360 Bench Stop Housing, Malleable Iron, 2-9/16" Diameter. Stop Proper, Steel. Quick Adjusting. Finish, Cadmium Plate. Weight per Hundred, 75 Lbs. Packed 6 to a Box

•Operation

No. 430 rapid acting vise. Nut is released and completely disengaged from screw by a slight anti-clockwise movement of handle thereby permitting jaw to be moved backward or forward freely. When handle is turned in clockwise manner, nut immediately engages screw, and vise operates like a continuous screw vise.

No. 630 continuous action screw operation vise.

•Weight

Nos. 430S and 630S-1—32 lbs. each.

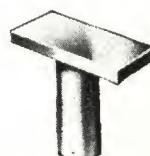
Nos. 430S and 630S-2—42 lbs. each.

Nos. 430S and 630S-3—36 lbs. each.

No. 430 quick acting nut—1-1/4 lbs.

No. 430 nut sleeve—1 lb.

No. 430 nut thread—1/4 lb.

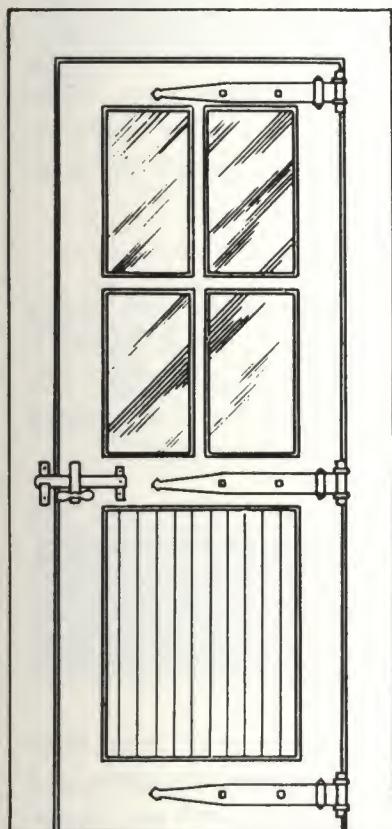


No. 360 Metal Dog Polished Cold Rolled Steel. Fits Holes Across End of Bench Providing Positive Stop

Hardware Sets for Single and Pairs of Swinging Doors For Inside or Outside Installations

To Order: Merely Specify Catalog Number, Width and Height of Opening
and Kind of Frame, Wood or Metal

SINGLE HINGED DOOR



These Complete Sets Contain:

1 No. 546 Door. 1 No. 225 Latch.
*No. BB-1036 Hinges, for wood frame.
*No. BB-1035 Hinges, for metal frame.

SPECIFICATION TABLE For Openings with Wood Frames

Catalog Number	Height, Opening	Latch
1546-1-3/4-1036	Up to 10'	225-1
1546-2-1/4-1036	Not over 12'	225-3
1546-2-1/2-1036	Not over 12'	225-3
1546-2-3/4-1036	Not over 12'	225-3

*3 hinges furnished with doors up to 10' high.

*4 hinges furnished for higher doors.

*19" hinges furnished for doors to 3' 11" wide.

*24" hinges furnished for doors 4'-4' 5" wide.

*30" hinges furnished for doors 4' 6"-5' 0" wide.

†1-3/4, 2-1/4, 2-1/2, and 2-3/4 designate thickness of door.

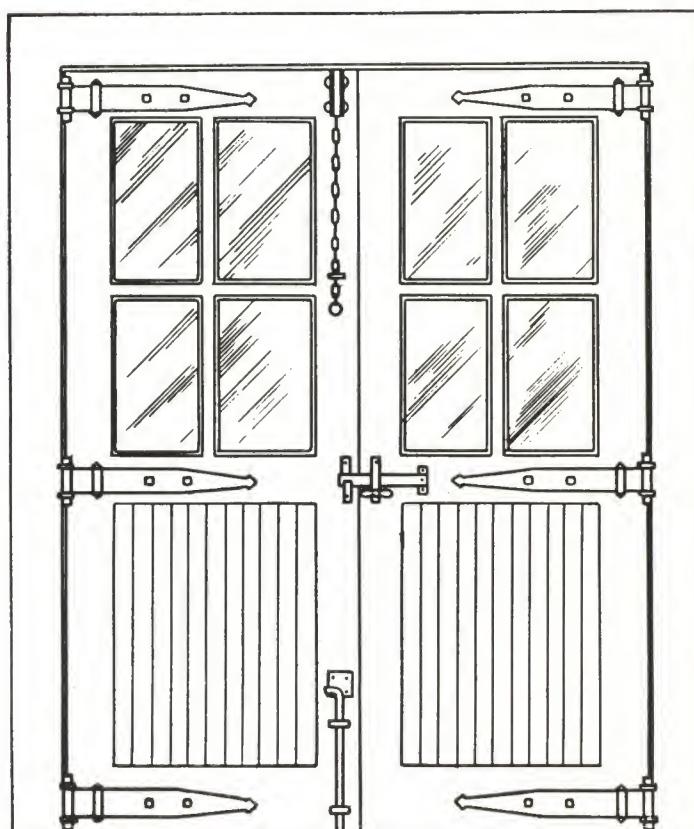
†If steel frames are used change the 1036 in catalog number to 1035, example: 1546-1-3/4-1035.

Doors are built to STANDARD DESIGNS, but laminated wood panels will be furnished in place of openings for glass if so requested.

No glass, glazing, or painting included, but each wood panel member and the complete door is treated with deep penetrating oil.

Although this page illustrates SWINGING DOORS, we can furnish the same door in SLIDE FOLD, SLIDE AROUND THE CORNER, VERTICAL LIFT OR TURNOVER types. Detailed information furnished on request.

PAIR HINGED DOORS



These Complete Sets Contain:

2 No. 546 Doors. 1 No. 225 Latch.
1 No. 514 Bolt. 1 No. 524 Bolt.
*No. BB-1036 Hinges, for wood frame.
*No. BB-1035 Hinges, for metal frame.

SPECIFICATION TABLE For Openings with Wood Frames

Catalog Number	Height, Opening	Latch
2546-1-3/4-1036	Up to 10'	225-1
2546-2-1/4-1036	Not over 12'	225-3
2546-2-1/2-1036	Not over 12'	225-3
2546-2-3/4-1036	Not over 12'	225-3

*6 hinges furnished with doors up to 10' high.

*8 hinges furnished for higher doors.

*19" hinges furnished for doors to 3' 11" wide.

*24" hinges furnished for doors 4'-4' 5" wide.

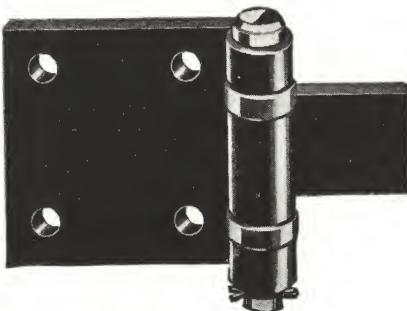
*30" hinges furnished for doors 4' 6"-5' 0" wide.



Hinge Data Required for Ordering



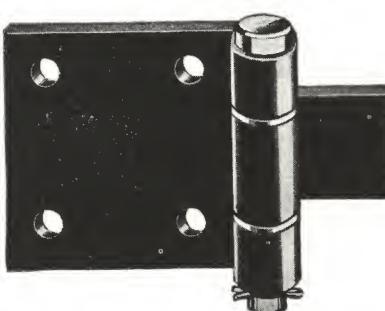
Ball Bearing Unit,
Cadmium Plated. Balls
Are Packed in Grease.



Ball Bearing Type

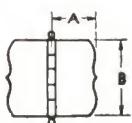
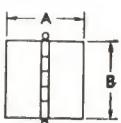


Hardened Disc
Bearing, Cadmium
Plated.

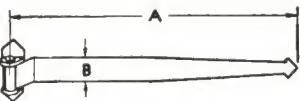
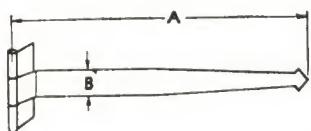
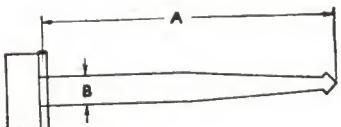
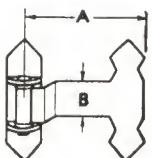
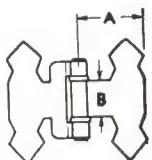


Disc Bearing Type

Butt Hinges



Surface, Strap and Jamb Hinges



• Use

For large industrial doors, railroads, roundhouses and shop doors, public garage doors, and other doors on large openings subjected to rough usage.

• Types of Bearings

Two types are available: ball bearing and disc bearing. If ball bearing is preferred, use the prefix "BB" with hinge catalog number. If disc bearing is desired, use prefix "DB."

Both "DB" and "BB" units and pintle pins are cadmium plated.

• How to Order

Specify catalog number of hinge desired.

1. State exact size of both hinge straps and pintles. If possible, send sketch of door, jamb and hinges.



2. Bolts for attaching hinges to door and jamb can be furnished at an extra cost, if thickness of door and type of jamb is given.



• Hinge Dimensions

Give left to right measurement "A" before height measurement "B."

For butt hinges, "A" equals over-all dimension with leaves open.

For surface, strap, and jamb hinges, "A" equals distance from center of pintle pin to extreme edge of longest strap or leaf.

Heavy Industrial Door Hinges

No. 434-B



Illustration Shows No. DB-434-B Hinge (Disc Bearing). If Ball Bearing Hinge Is Desired, Specify No. BB-434-B.

Hole Sizes: Pad 13/16", Strap 9/16"

• **Use**

For heavy swinging doors or for No. 434 installations.

No. 434-B. Pintle attached to face of the jambs so doors will clear doorway when standing open at right angles to wall.

No. 434-D. Pintle attached to face of the wall so doors can swing around parallel to wall.

No. 434-W. Pintle attached to face of the wall so doors can swing around parallel to wall.

• **Construction**

Stock (see table below).

Bolt holes made to match those in No. 434-J and 434-K hinges.

• **Finish**

Gray enamel, regular. Galvanized available when specified.

No. 434-D

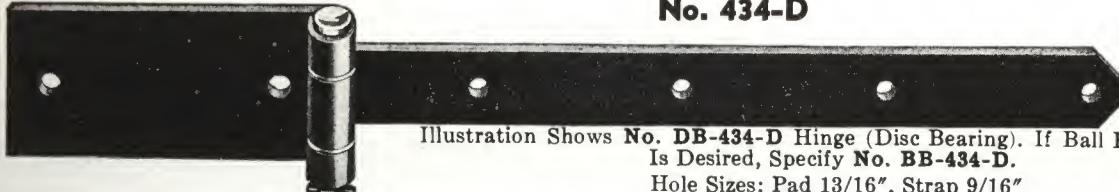


Illustration Shows No. DB-434-D Hinge (Disc Bearing). If Ball Bearing Hinge Is Desired, Specify No. BB-434-D.

Hole Sizes: Pad 13/16", Strap 9/16"

Weight and Dimension Table—Nos. 434-B, 434-D, and 434-W Hinges

LENGTH OF STRAPS	Strap $\frac{3}{16} \times 2\frac{1}{2}''$ DB Pintle 6" High BB Pintle 7" High Pintle Pin $\frac{3}{8}$ " Diam.			Strap $\frac{3}{16} \times 3'$ DB Pintle 7" High BB Pintle 8" High Pintle Pin $\frac{3}{8}$ " Diam.			Strap $\frac{3}{16} \times 3'$ DB Pintle 7" High BB Pintle 8" High Pintle Pin 1" Diam.			Strap $\frac{3}{16} \times 4'$ DB Pintle 9" High BB Pintle 10" High Pintle Pin 1" Diam.		
	SHIPPING WEIGHTS, DISC BEARING, PER PAIR, POUNDS											
	434-B	434-D	434-W	434-B	434-D	434-W	434-B	434-D	434-W	434-B	434-D	434-W
Up to 3' 0"	36	36	36	42	42	42	56	56	56	83	83	83
3' 1" to 4' 0"	42	42	42	50	50	50	67	67	67	96	96	96
4' 1" to 5' 0"	49	49	49	58	58	58	78	78	78	110	110	110
5' 1" to 6' 0"	55	55	55	66	66	66	88	88	88	124	124	124
SHIPPING WEIGHTS, BALL BEARING TYPE, PER PAIR, POUNDS												
Up to 3' 0"	39	39	39	45	45	45	60	60	60	88	88	88
3' 1" to 4' 0"	45	45	45	53	53	53	71	71	71	91	91	91
4' 1" to 5' 0"	52	52	52	61	61	61	82	82	82	115	115	115
5' 1" to 6' 0"	58	58	58	69	69	69	92	92	92	129	129	129

See Page 146 for Directions for Ordering.

No. 434-W

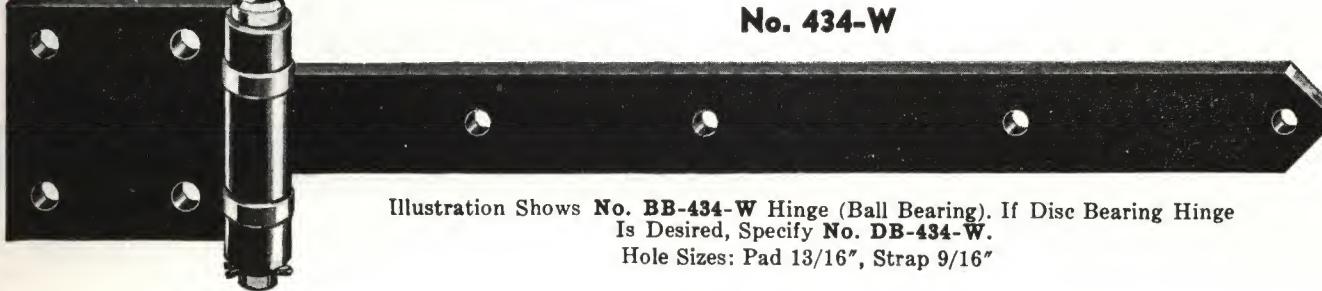


Illustration Shows No. BB-434-W Hinge (Ball Bearing). If Disc Bearing Hinge Is Desired, Specify No. DB-434-W.

Hole Sizes: Pad 13/16", Strap 9/16"

Heavy Industrial Door Hinges

(See Page 146, for Directions for Ordering)

No. 434-C Single Strap Hinge

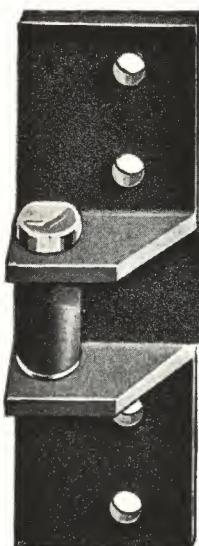


Illustration Shows **No. DB-434-C** (Disc Bearing). If Ball Bearing Hinge Is Desired, Specify **No. BB-434-C**.

Hole Sizes: Pad 13/16", Strap 9/16"

•Use

For very heavy swinging doors or No. 434 installations.

No. 434-C. For installations with wood doors, the pintle being attached to steel frames.

No. 434-CC. For installations where pintle is attached to columns between two adjacent doorways.

No. 434-E. For installations using wood doors, pintle to be attached to brick or masonry face of wall.

•Construction

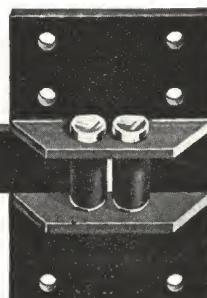
Stock (see table below).

Bolt holes match those in No. 434-J and 434-K hinges.

•Finish

Gray enamel, regular. Galvanized available when specified.

No. 434-CC



Double Straight Strap Hinge

Illustration Shows One Pair Hinges.

Hole Sizes: Pad 13/16", Strap 9/16"

Illustration Shows **No. DB-434-CC** (Disc Bearing). If Ball Bearing Hinge Is Desired, Specify **No. BB-434-CC**.

Weight and Dimension Table—Nos. 434-C, 434-CC, and 434-E Hinges

LENGTH OF STRAPS	Strap $\frac{3}{8} \times 2\frac{1}{4}''$ *DB Pintle $13\frac{3}{4}''$ High *BB Pintle $14\frac{1}{2}''$ High Pintle Pin $\frac{3}{8}''$ Diam.			Strap $\frac{3}{8} \times 3''$ *DB Pintle $14\frac{1}{4}''$ High *BB Pintle $14\frac{3}{4}''$ High Pintle Pin $\frac{3}{8}''$ Diam.			Strap $\frac{1}{2} \times 3''$ *DB Pintle $14\frac{1}{4}''$ High *BB Pintle $15\frac{1}{2}''$ High Pintle Pin $1''$ Diam.			Strap $\frac{3}{8} \times 4''$ *DB Pintle $15\frac{1}{4}''$ High *BB Pintle $16\frac{1}{2}''$ High Pintle Pin $1''$ Diam.		
	434-C	434-CC	434-E	434-C	434-CC	434-E	434-C	434-CC	434-E	434-C	434-CC	434-E
Up to 3' 0"	35	35	36	39	39	43	53	53	57	65	65	76
3' 1" to 4' 0"	41	41	42	47	47	50	63	63	67	78	78	89
4' 1" to 5' 0"	48	48	49	55	55	58	73	73	77	92	92	103
5' 1" to 6' 0"	54	54	55	62	62	66	83	83	88	105	105	116
SHIPPING WEIGHTS, DISC BEARING, PER PAIR, POUNDS												
Up to 3' 0"	37	37	37	41	41	44	56	56	59	68	68	78
3' 1" to 4' 0"	43	43	43	49	49	51	66	66	69	71	71	81
4' 1" to 5' 0"	50	50	50	57	57	59	76	76	79	95	95	105
5' 1" to 6' 0"	56	56	56	64	64	67	86	86	90	108	108	118
SHIPPING WEIGHTS, BALL BEARING, PER PAIR, POUNDS												
Up to 3' 0"	37	37	37	41	41	44	56	56	59	68	68	78
3' 1" to 4' 0"	43	43	43	49	49	51	66	66	69	71	71	81
4' 1" to 5' 0"	50	50	50	57	57	59	76	76	79	95	95	105
5' 1" to 6' 0"	56	56	56	64	64	67	86	86	90	108	108	118

*No. 434-E Pintles are same height as width of hinge strap.

Note—The above hinges are always built special, as required. When ordering be sure to furnish us with a sketch of the jamb and doors or the exact length of the hinges. Bolts for attaching the hinges to the doors will be furnished at an extra cost with the hinges providing the thickness of the doors is stated on the order. Pintle Bolts when ordered are furnished at an extra price.

No. 434-E Strap Hinge



Illustration Shows **No. DB-434-E** (Disc Bearing). If Ball Bearing Hinge Is Desired, Specify **No. BB-434-E**.

Hole Sizes: Pad 13/16", Strap 9/16"

Heavy Industrial Door Hinges

No. 434-J Double Strap Flat Hinges

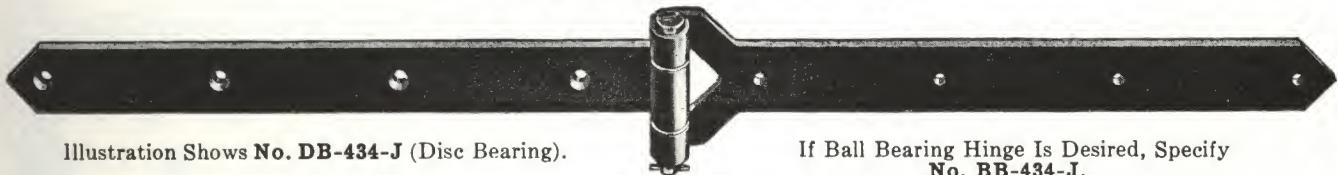


Illustration Shows No. DB-434-J (Disc Bearing).

If Ball Bearing Hinge Is Desired, Specify
No. BB-434-J.

Hole Sizes: Straps 9/16"

• **Use**

For large folding doors.

No. 434-J. For doors opening inside the building.

No. 434-K. For doors which open outside the building.

(See Page 146 for
Directions for Ordering)

• **Construction**

Stock (see table below).

Bolt holes match those in Nos. 434-B, C, CC, D, and E hinges.

• **Finish**

Gray enamel, regular. Galvanized available when specified.

No. 434-K Double Strap Offset Hinges



Illustration Shows No. DB-434-K (Disc Bearing).

If Ball Bearing Hinge Is Desired, Specify
No. BB-434-K.

Hole Sizes: Straps 9/16"

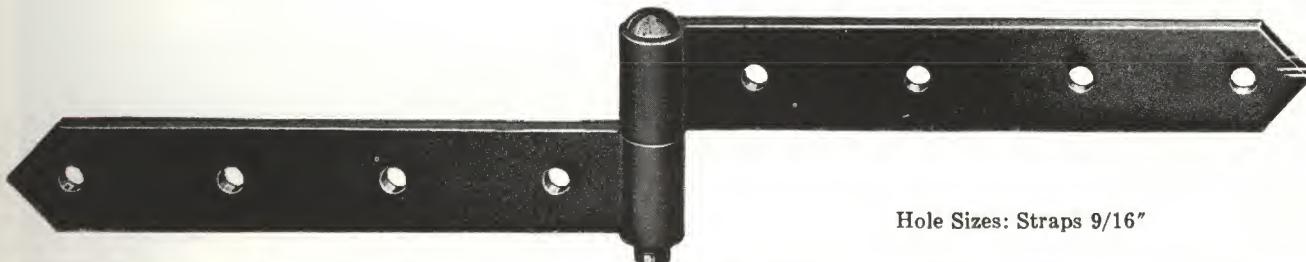
Weight and Dimension Table—Nos. 434-J and 434-K Hinges

LENGTH OF STRAPS	Strap $\frac{3}{8} \times 2\frac{1}{2}''$ DB Pintle 5" High BB Pintle 7" High Pintle Pin $\frac{3}{8}$ " Diam.		Strap $\frac{3}{8} \times 3''$ DB Pintle 6" High BB Pintle 8" High Pintle Pin $\frac{3}{8}$ " Diam.		Strap $\frac{3}{8} \times 3''$ DB Pintle 6" High BB Pintle 8" High Pintle Pin 1" Diam.		Strap $\frac{3}{8} \times 4''$ DB Pintle 7" High BB Pintle 9" High Pintle Pin 1" Diam.	
	434-J	434-K	434-J	434-K	434-J	434-K	434-J	434-K
Up to 3' 0"	45	45	54	54	72	72	95	95
3' 1" to 4' 0"	58	58	70	70	92	92	122	122
4' 1" to 5' 0"	71	71	85	85	113	113	150	150
5' 1" to 6' 0"	84	84	100	100	133	133	177	177
SHIPPING WEIGHTS, DISC BEARING, PER PAIR, POUNDS								
Up to 3' 0"	48	48	56	56	75	75	98	98
3' 1" to 4' 0"	61	61	72	72	95	95	125	125
4' 1" to 5' 0"	74	74	87	87	116	116	153	153
5' 1" to 6' 0"	87	87	102	102	136	136	180	180
SHIPPING WEIGHTS, BALL BEARING, PER PAIR, POUNDS								
Up to 3' 0"	48	48	56	56	75	75	98	98
3' 1" to 4' 0"	61	61	72	72	95	95	125	125
4' 1" to 5' 0"	74	74	87	87	116	116	153	153
5' 1" to 6' 0"	87	87	102	102	136	136	180	180

Note—The above hinges are always built special, as required. When ordering be sure to furnish us with a sketch of the jamb and doors or the exact length of the hinges. Bolts for attaching the hinges to the doors will be furnished at an extra cost with the hinges providing the thickness of the doors is stated on the order.

No. 1055 Heavy Strap Hinge (Plain Bearing Only)

Has Loose Pin



Hole Sizes: Straps 9/16"

Catalog Number	Thickness Stock	Strap Height	Strap Length	Pin Height	Hinge Pin Diameter	Weight Approximate per Pair
1055-2 1/2	$\frac{5}{8}$ "	$2\frac{1}{2}$ "	As Required	$5\frac{1}{2}$ "	$\frac{3}{4}$ "	16 lbs.
1055-3	$\frac{3}{8}$ "	3"		$6\frac{1}{2}$ "	$\frac{3}{4}$ "	19 lbs.

Gray enamel, regular. Galvanized available when specified. Bolts furnished at extra cost if desired.

No. 1035 Heavy Offset Hinges

• Use

For garage, warehouse, factory, or other heavy doors.

• Construction

Pintle can be set far enough from edge of opening so any number of doors will clear opening when standing at right angles to doorway.

Adjustable clip bolts to door near edge.

Hinge clips are not furnished on 12" and 15" hinges.

Regularly furnished with cadmium plated disc-bearings (DB-1035).

If specified, furnished with cadmium plated ball-bearing units at extra cost (BB-1035).

Pintle pin, 1/2" diameter, cadmium plated.

Pintle pad holes spaced on 5-1/2" centers.

• Packed

In bulk.

• Finish

Gray enamel, regular.
Galvanized available when specified.

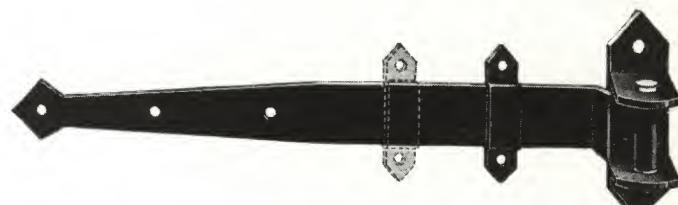


Illustration Shows No. DB-1035 (Disc-Bearing).
If Ball-Bearing Is Desired, Specify No. BB-1035.
Hole Sizes: Pad 9/16"; Strap and Clip 13/32"

Dimension and Weight Table—1035 Hinges

Size of Strap	Pintle Stock	Wt., Lbs. per Pair	Size of Strap	Pintle Stock	Wt., Lbs. per Pair
12 x 2 1/2 x 1/4"	1 3/4"	8	30 x 2 1/2 x 5/8"	1 3/4"	17
15 x 2 1/2 x 1/4"	1 3/4"	9	36 x 2 1/2 x 5/8"	1 3/4"	20
19 x 2 1/2 x 1/4"	1 3/4"	11	42 x 2 1/2 x 5/8"	2 1/2"	24
24 x 2 1/2 x 1/4"	1 3/4"	13	48 x 2 1/2 x 5/8"	2 1/2"	26

(See Page 146 for Directions for Ordering)

No. 1045 Extra-Heavy Offset Hinges

• Use

For garage, warehouse, factory, or other heavy doors.

• Construction

Similar to No. 1035 described above except that this hinge is made of heavier material. Hinge clips furnished on all sizes.

• Packed

In bulk.

• Finish

Gray enamel, regular. Galvanized available when specified.

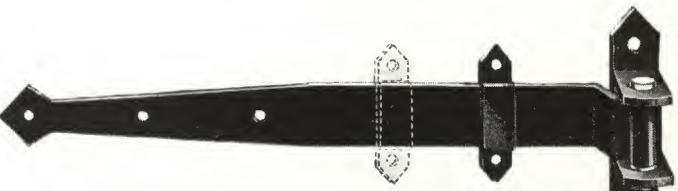


Illustration Shows No. DB-1045 (Disc-Bearing).
If Ball-Bearing Is Desired, Specify No. BB-1045.
Hole Sizes: Pad 11/16"; Strap and Clip 13/32"

Dimension and Weight Table—1045 Hinges

Size of Strap	Pintle Stock	Wt., Lbs. per Pair	Size of Strap	Pintle Stock	Wt., Lbs. per Pair
30 x 3 x 1 1/4"	5/8 x 3"	26	42 x 3 x 1 1/4"	5/8 x 3"	31
36 x 3 x 1 1/4"	5/8 x 3"	30	48 x 3 x 1 1/4"	5/8 x 3"	32 1/2

No. 1039 Reversible Pintle Hinges

• Use

As a reverse pad hinge as shown by large illustration, a mortised pintle (detail "B"), or a surface hinge (detail "C").

• Construction

The 10" and 12" hinges have plain bearings, "PB." The 18" and 24" hinges have disc-bearings (cadmium plated) "DB."

Holes in strap are not countersunk. When bolts or screws are required, should be round head.

• Packed

In bulk.

• Finish

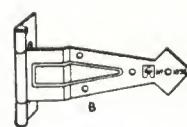
Gray enamel, regular.
Galvanized available when specified.



Hole Sizes: Pad 11/32"; Strap 9/32"

Dimension and Weight Table—1039 Hinges

Catalog No.	Strap Size	Pintle Size	Wt., Lbs. per Pair
PP-1039	10 x 2 1/4"	2 1/4 x 5 1/4"	3 1/4
PP-1039	12 x 2 1/4"	2 1/4 x 5 1/4"	4
DB-1039	18 x 2 1/4"	2 1/4 x 7"	6
DB-1039	24 x 2 1/4"	2 1/4 x 7"	7 1/4



No. 1036 Heavy Strap Hinge with Mortise Pintle



Illustration Shows No. DB-1036 (Disc-Bearing). If Ball-Bearing Hinge Is Desired, Specify No. BB-1036.

Hole Sizes: Pad 11/32"; Strap 11/32". In All Sizes Except 36" Hinge, holes in Pad are 13/32".

Dimension and Weight Table—1036 Hinges

Size of Strap	Height of Pintle	Wt., Lbs. per Pair	Size of Strap	Height of Pintle	Wt., Lbs. per Pair
10 x 2 1/2" x 3/8"	6"	6 1/2	30 x 3" x 1/4"	7"	15
12 x 2 1/2" x 3/8"	6"	7	36 x 3" x 1/4"	7"	18
18 x 2 1/2" x 3/8"	6"	8 1/2	42 x 3" x 1/4"	7"	21
24 x 2 1/2" x 3/8"	6"	10	48 x 3" x 1/4"	7"	25

No. 1040 Heavy Double Strap Surface Hinges

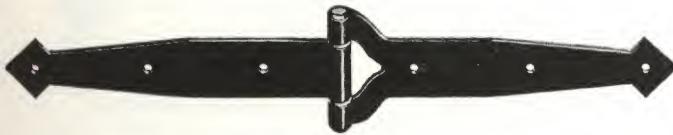


Illustration Shows No. DB-1040 (Disc-Bearing). If Ball-Bearing Hinge Is Desired, Specify No. BB-1040.

Hole Sizes: Strap 13/32"

•Use

For in-opening installations where Nos. 1035 or 1036 hinges are used in jambs.

•Construction

Wrought steel, 1/4" thick. Each leaf, 15" long, 2-1/2" high. Pintle, 4-7/8" high. Tight pintle pin, 1/2" diameter. Regularly furnished with cadmium plated disc-bearings (DB-1040). Ball-bearing units (BB-1040) may be had if ordered. Can be furnished holeless so holes may be drilled on job to match other hinges.

•Packed

In bulk without bolts.

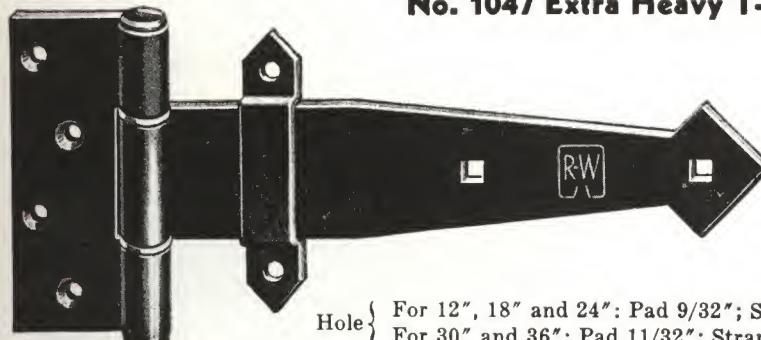
•Finish

Gray enamel, regular. Galvanized available when specified.

•Weight

Per pair, 10 lbs.

No. 1047 Extra Heavy T-Type Hinge



Hole { For 12", 18" and 24": Pad 9/32"; Strap 11/32"
For 30" and 36": Pad 11/32"; Strap 13/32"

Dimension and Weight Table—1047 Hinges

Size of Strap	Stock	Size of Pintle	Wt., Lbs. per Pair	Size of Strap	Stock	Size of Pintle	Wt., Lbs. per Pair
12 x 2 1/2"	5/8"	2 5/8" x 6"	6	30 x 3"	5/8"	2 5/8" x 7"	10
18 x 2 1/2"	5/8"	2 5/8" x 6"	7 1/2	36 x 3"	5/8"	2 5/8" x 7"	18
24 x 2 1/2"	5/8"	2 5/8" x 6"	8 1/2				

(See Page 146 for Directions for Ordering)

No. 03 Heavy Hinges for Fire Doors, Gates and Industrial Doors

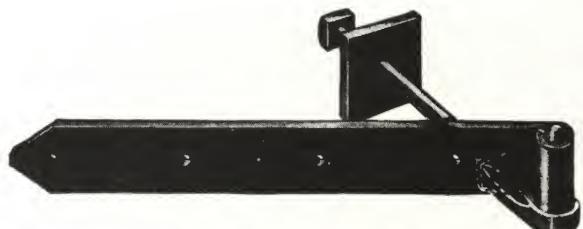
•No. 03-1

For flush doors and 1-3/4" and 2-3/4" lap doors.

To order, state thickness of wall and thickness of door, and whether doors are flush or lap.

Unless otherwise specified, pintles for 2-1/2" lap doors will be sent. Machine bolt and washer furnished with pintle included in price of hinge. Extra charge for carriage bolts for attaching hinge strap to door.

Packed in bulk.



No. 03-1 for Lap Doors
Hole Size: Strap 7/16"

•No. 03-2

Hinge strap, steel. Loose pintle pin. No machine bolts furnished.

•No. 03-3

Hinge strap, steel. Loose pintle pin. No machine bolts furnished.

•No. 03-4

Hinge strap, steel. Loose pintle pin. No machine bolts furnished.



No. 03-1 with Flush Door Pintle
Pintle Hole 3/4" Tapped

Information and Weight Table In Pounds per Pair

Length	03-1	03-2	03-3	03-4
15"	16	13	10-1/2	15
18"	18	14	12	16-1/2
21"	19	16	13-1/2	18
24"	21	18	14-1/2	20
30"	24	21	17	23
36"	27	24	19-1/2	26
42"	30	27	23	29
48"	33	30	25	33

Weights figured for 12" wall. For 18" wall weights, add 1-1/2 lbs. to 12" weight. For 24" wall weights, add 3 lbs. to 12" weight.

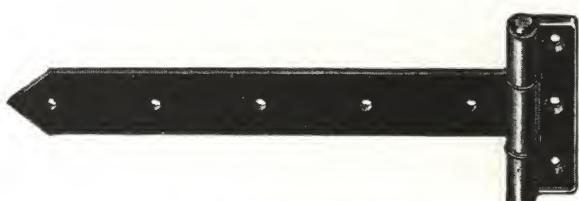


No. 03-2
Hole Sizes: Pad 17/32"; Strap 7/16"

Pintle	Malleable	Malleable	Malleable or Steel
Pintle Size....	*	1 1/2" x 3 1/2"	7" x 2 1/4"
Hinge Straps...	3 5/8" x 2 1/2"	3 5/8" x 2 1/2"	3 15/16" x 2 1/2"
Pintle Pin....	3/4"	3/4"	1/2"

Packed.....	In Bulk		
Finish.....	Gray enamel		

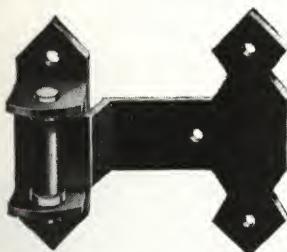
*Malleable and Steel Pintle combined with machine bolts to go through wall. Be sure to state thickness of wall when ordering.



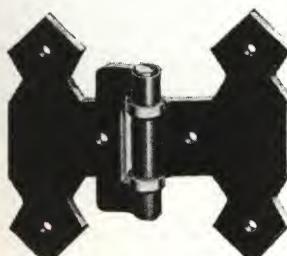
Nos. 03-3 and 03-4
Hole Sizes: No. 03-3 Pads, 7/16"; No. 03-4 Pads, 9/16"; Strap Sizes for Both, 7/16"

Heavy Jamb and Surface Hinges For Glass Paneled Doors

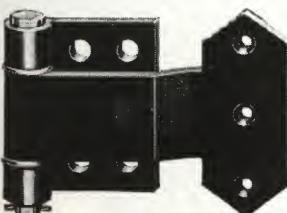
Note — DB before the catalog number indicates that hinges are equipped with disc bearings; BB indicates equipped with ball bearing units. When ordering: Mention type of bearings desired; furnish us with sketch of the jamb and doors or the exact length of the hinges. Bolts for attaching hinges will be furnished at an extra cost providing the thickness of the doors is stated on the order. Hinges are always built special, as required.



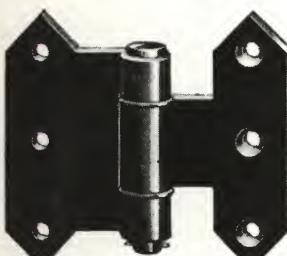
No. BB-1139 Ball Bearing Hinge shown. If Disc Bearing Is Desired, Specify No. DB-1139



No. BB-1140 Ball Bearing Hinge shown. If Disc Bearing Is Desired, Specify No. DB-1140



No. DB-1041 Disc Bearing Hinge shown. If Ball Bearing Is Desired, Specify No. BB-1041



No. DB-1042 Disc Bearing Hinge shown. If Ball Bearing Is Desired, Specify No. BB-1042

•No. 1139 Jamb Hinges

For doors having long glass panels. Used with No. 1035 hinges. Vertical part of strap attaches to stile of door adjacent to glass panels. Stock: 1/4" x 2-1/2". Standard lengths, 6", 8", 10", and 12", but can be furnished any length according to requirements. Bolt holes of pintle on 5-1/2" centers; holes in vertical part of strap, 6" center. Reversible. Loose pintle pin, 1/2" diameter, cadmium plated. Cadmium plated bearings; either disc or ball bearing units. Disc bearings regularly furnished.

Finish, gray enamel, regular. Galvanized available when specified.

Weight Table (Per Pair)

Cat. No.	6" Strap	8" Strap	10" Strap	12" Strap
DB-1139	9 lbs.	11 lbs.	11-3/4 lbs.	12 lbs.
BB-1139	10-1/2 lbs.	11-1/4 lbs.	12 lbs.	13 lbs.

•No. 1140 Surface Hinges

For pairs of doors having long glass panels. Used with No. 1040 hinges. Stock: 1/4". Each strap, 4-3/4" long by 2-1/2" high. One standard size only. Other sizes special. Bolt holes: horizontally, spaced on 7" centers; vertically, on 6" centers. Reversible. Loose pintle pin, 1/2" diameter, cadmium plated.

Cadmium plated bearings; either disc or ball bearing units. Disc bearings regularly furnished.

Finish, gray enamel, regular. Galvanized available when specified.

Weight, per pair: DB-1140, 8 lbs.; BB-1140, 8-1/4 lbs.

•No. 1041 Reverse Pad Offset Jamb Hinges

For center of doors having large glass panels. Used with No. 434-B hinges.

Pintle attaches to face of jamb and vertical leaf attaches to stile of door. Stock: 3/8" x 2-1/2", 3/8" x 3", 1/2" x 3". Length of strap as required. Bolt holes in strap on 3" centers. Holes in pintle plate take 3/4" bolts, holes in strap take 1/2" bolts. Cadmium plated loose pintle pin, 3/4" diameter for 3/8" stock, 1" for 1/2" stock. Reversible. Cadmium plated bearings; either disc or ball bearing units. Disc bearings regularly furnished.

Finish, gray enamel, regular. Galvanized available when specified.

•No. 1042 Surface Hinges

For center of pairs of heavy glass paneled doors. Used with No. 434-J or 434-K hinges.

Stock: 3/8" x 2-1/2", 1/2" x 3". Length of strap as required. Bolt holes on 3" centers. Reversible. Cadmium plated loose pintle pin, 3/4" diameter for 3/8" stock, 1" for 1/2" stock.

Cadmium plated bearings; either disc or ball bearing units. Disc bearings regularly furnished.

Finish, gray enamel, regular. Galvanized available when specified.

Surface Hinges

•No. 435 Surface Hinges

Four sizes (as listed below). Loose pintle pin.

Stock: 2-1/2" x 4" and 3-1/2" x 5", 12 gauge steel; 4" x 7" and 12" x 4", 10 gauge steel.

Packed, one pair in a box. 2-1/2" x 4" with screws, others with R.H. stove bolts for 2-1/2" door.

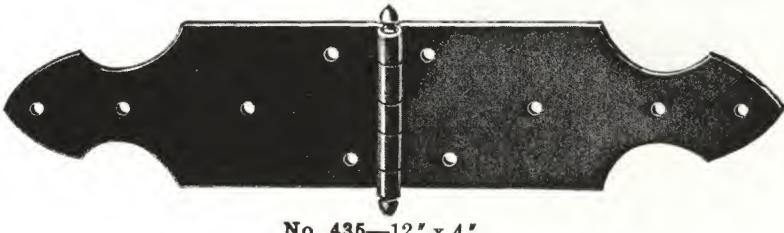
Finish, gray enamel.

Weight Table

No. 435—Size 2 1/2" x 4" . . .	1 1/2 Lbs. per Pair
No. 435—Size 3 1/2" x 5" . . .	4 Lbs. per Pair
No. 435—Size 4" x 7" . . .	5 3/4 Lbs. per Pair
No. 435—Size 12" x 4" . . .	8 3/4 Lbs. per Pair



No. 435—2 1/2" x 4", 3 1/2" x 5", 4" x 7"



No. 435—12" x 4"

•No. 636 Offset Surface Hinges

Four sizes (as listed below). Loose pintle pin.

Stock: Three smaller sizes, 12 gauge wrought steel; largest, 10 gauge wrought steel.

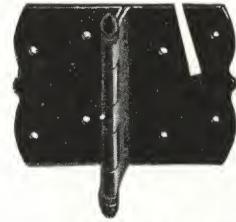
Hinge eye offset, 3/4" to allow 1-1/2" between doors when folded.

Packed, one pair in box. Smallest size with screws and others with R.H. stove bolts for 2-1/2" door.

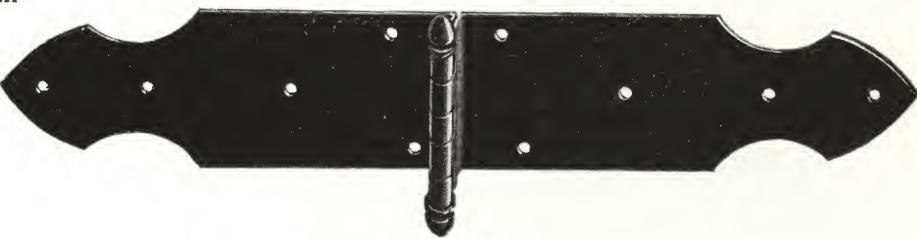
Finish, gray enamel.

Weight Table

No. 636—Size 2 1/2" x 4" . . .	2 Lbs. per Pair
No. 636—Size 3 1/2" x 5" . . .	4 1/4 Lbs. per Pair
No. 636—Size 4" x 7" . . .	6 1/4 Lbs. per Pair
No. 636—Size 12" x 4" . . .	9 1/4 Lbs. per Pair



No. 636—2 1/2" x 4", 3 1/2" x 5", 4" x 7"



No. 636—12" x 4"

•No. 836 Offset Surface Hinges

Four sizes (listed below). Loose pintle pin.

Stock: Three smaller sizes, 12 gauge steel; 12" x 4", 10 gauge steel.

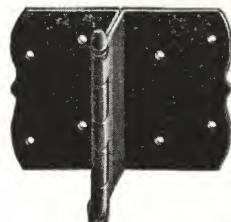
Hinge eye offset, 1-1/2" to allow 3" between doors when folded.

Packed, one pair in box. Smallest size with screws and the larger sizes with R.H. stove bolts for 2-1/2" door.

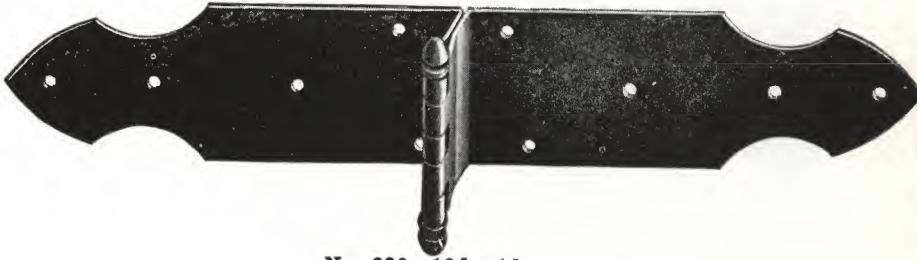
Finish, gray enamel.

Weight Table

No. 836—Size 2 1/2" x 4" . . .	2 1/4 Lbs. per Pair
No. 836—Size 3 1/2" x 5" . . .	5 Lbs. per Pair
No. 836—Size 4" x 7" . . .	7 Lbs. per Pair
No. 836—Size 12" x 4" . . .	9 1/2 Lbs. per Pair

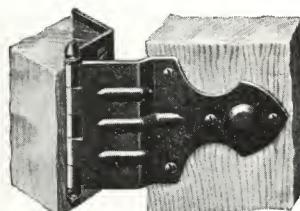


No. 836—2 1/2" x 4", 3 1/2" x 5", 4" x 7"

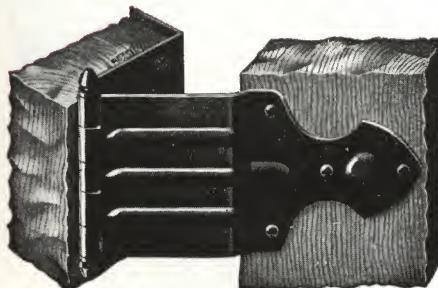


No. 836—12" x 4"

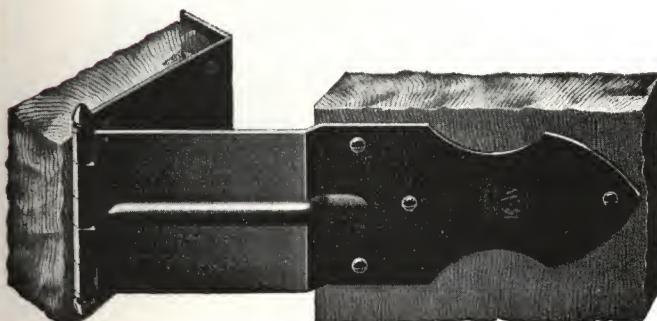
Ornamental Hinges



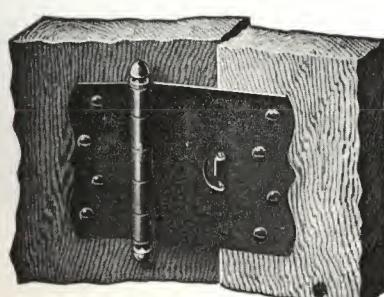
No. 311—6 1/2"



No. 311—8 1/2"



No. 311—14"



No. 635

No. 311 Half Surface Ornamental Butt Hinges

•Use

For No. 435 x 31 Slidelite garage hardware sets.

•Construction

Height, 4". Loose pintle pin.

Size	Length Long Leaf	Center of Pin to Jamb	Hinge Extends on Door	Offset Allows for
311— 6-1/2"	6-1/2"	1-3/4"	4-1/2"	1 Door
311— 8-1/2"	8-1/2"	3-3/4"	4-1/2"	2 Doors
311—14"	14"	5-3/4"	8-1/4"	3 Doors

•Packed

One pair in box with screws.

•Finish

Gray enamel.

•Weight (Per Pair)

No. 311, 6-1/2", 2-1/2 lbs.; No. 311, 8-1/2", 3-3/4 lbs.; No. 311, 14", 6-3/4 lbs.

No. 635 Surface Hinges

•Use

Where doors hinged together run around inside corner on curved track.

•Construction

Two sizes: No. 635, 4", leaves 2" and 4" long; No. 635, 5", leaves 3-1/2" and 5-1/2" long; No. 12 gauge wrought steel.

•Packed

One pair in a box. No. 635, 4", with screws; No. 635 5", with bolts for 2-1/2" door.

•Finish

Gray enamel.

•Weight (Per Pair)

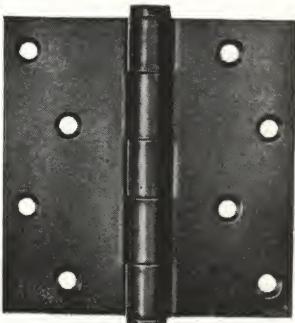
No. 635, 4", 2 lbs.; No. 635, 5", 5 lbs.

Butt Hinges

•No. 135 Butt Hinges

For folding partition doors or wherever superior quality and appearance are essential.

Size of Butts	Thickness of Doors	Weight per Pair	Size of Butts	Thickness of Doors	Weight per Pair
3" x 3" 3 1/2" x 3 1/2"	1 3/8" 1 3/4"	1 lb. 1 1/4 lbs.	4" x 4" 4 1/2" x 4 1/2"	2, 2 1/4" 2 1/2"	1 1/2 lbs. 2 lbs.



No. 135

All sizes available in steel, gray enamel, dull brass, or dull bronze plated finish. Also available in solid bronze with dull bronze finish.

•No. 502 Half Surface Butt Hinges

Template hinge for No. 647 doors with steel jambs. No. 10 gauge steel. 4-1/2" x 4-1/2" size only. Finish, gray enamel. Packed one pair in a box with screws. Weight, 2-1/2 lbs. per pair.



No. 502



**R-W Features the
Most Complete Line of
Fire Doors and Hardware
Available Today.
See Pages 176-177**

"Holdtite" Handrail Brackets



R-W No. 466



R-W No. 566



R-W No. 766

•Use

Reversible brackets to support wood or metal handrails in masonry or concrete walls.

No. 466 for metal pipe (1-1/4" I.D., 1-5/8" O.D.) railings.

No. 566 for wood railings.

No. 766 for plastered masonry walls.

•Installation

No. 766 has 3/4" boss to extend through plaster and rest on masonry.

All brackets securely held to wall by 1/2" x 4" expansion bolt. Specify if bolts are wanted at a slight additional cost.

•Construction

Malleable iron.

Projection of rail from wall or plaster line, 3".

Diameter of flange or base, 3".

Reversible, used as either right or left hand brackets.

•Finish

Gray enamel, regular, bronze or brass plated unpolished, available when specified.

•Packed

One dozen (12) in a box.

•Weight (Per Hundred)

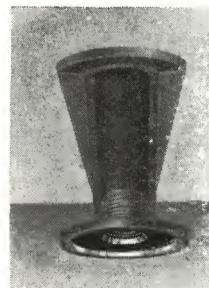
Nos. 466 and 566, 119 lbs.

No. 766, 141 lbs.

Concrete Inserts

•No. 106 Concrete Insert

Two sizes with hole tapped for 5/8" or 3/4" diameter bolts. Walls tapered to produce wedging action on concrete. Malleable iron. Height, 3-1/2". Diameter of face, 2-3/8". Finish, gray enamel. Packed in bulk. Weight, each, 1 lb.



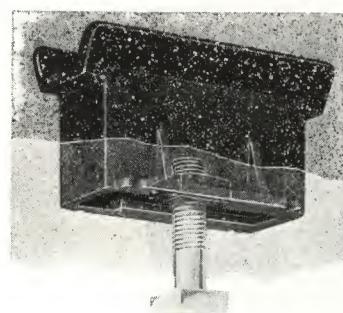
No. 106

•No. 133 Concrete Insert

Three sizes for 5/8", 3/4", and 7/8" bolts. Bolt opening is T shaped so nut or bolt head can be inserted in enlarged end. Bolt enters insert 1-3/4" and sidewise adjustment of bolt is 1-3/4". Malleable iron. Height over-all, 2-1/2". Finish, gray enamel. Packed in bulk.

Size	† For 5/8" Bolt	* For 3/4" Bolt	† For 7/8" Bolt
Length Exposed Face.....	3 1/2"	3 3/4"	4 3/8"
Width Exposed Face.....	2"	2 1/4"	2 1/2"
Weight, Each.....	1 1/4	1 3/4	2

*Carried in Stock.
†On Special Order.



No. 133

•No. 134 Concrete Insert

Three sizes for 5/8", 3/4", and 7/8" bolts. Bolt opening is T shaped so nut or bolt head can be inserted. Bolt enters insert 3-3/4" and sidewise adjustment of bolt is 7/8". Malleable iron. Height over-all, 4". Finish, gray enamel. Packed in bulk.

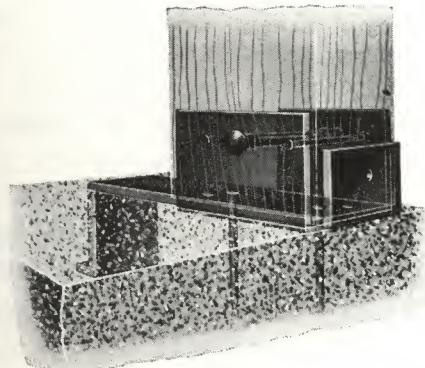
Size	† For 5/8" Bolt	* For 3/4" Bolt	† For 7/8" Bolt
Length Exposed Face.....	2 3/4"	3"	3 3/4"
Width Exposed Face.....	2"	2 1/4"	2 1/2"
Weight, Each.....	1 1/2	1 3/4	3

*Carried in Stock.
†On Special Order.

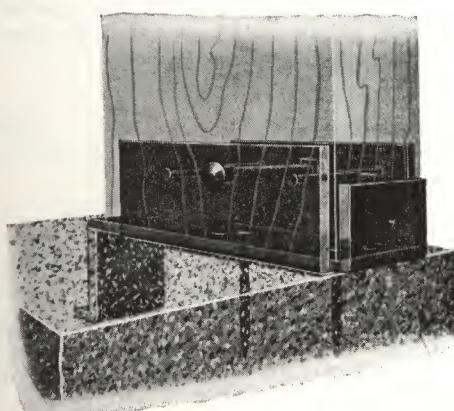


No. 134

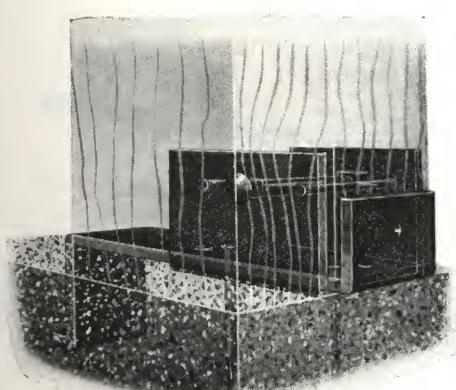
No. 262 Studding Sockets



No. 262-1, for 2" x 4" or 2" x 6" Studding



No. 262-2, for 2" x 6" or 2" x 8" Studding
 No. 262-3, for 3" x 6" or 3" x 8" Studding
 No. 262-4, for 4" x 6" or 4" x 8" Studding



When Used for Corner Post, Set the Socket
 $1\frac{3}{4}$ " from End. Nail the Second Stud to
 the First, Notching Out the Second Stud
 to Insure Tight Fit

•Use

To secure studding without the use of wood sills in construction of farm buildings, garages, etc., which are built on concrete floors or foundations.

•Four Sizes

- No. 262-1 for 2" x 4" or 2" x 6" studs.
- No. 262-2 for 2" x 6" or 2" x 8" studs.
- No. 262-3 for 3" x 6" or 3" x 8" studs.
- No. 262-4 for 4" x 6" or 4" x 8" studs.

•Construction

Steel construction.

"U" shaped base riveted to bent anchor plate. Height of heel inside the bend, 1-1/4".

•Installations

Studding socket set in soft concrete and spikes are driven through horizontal leg of socket plate into soft concrete to hold it in alignment.

After the concrete has hardened, the studding is slipped into the socket and is fastened in place by a through bolt and two nails through each vertical side of the "U" shaped section.

Each individual studding is thus permanently tied to the concrete foundation. No split or shrunken sills to weaken the structure. When used for corners, the anchor is set into the concrete 1-3/4" from the end. After one studding has been set, the second or outside studding is notched out at the bottom enough to clear the side of the anchor and then nailed to the first studding, thus forming a double corner post (see illustration).

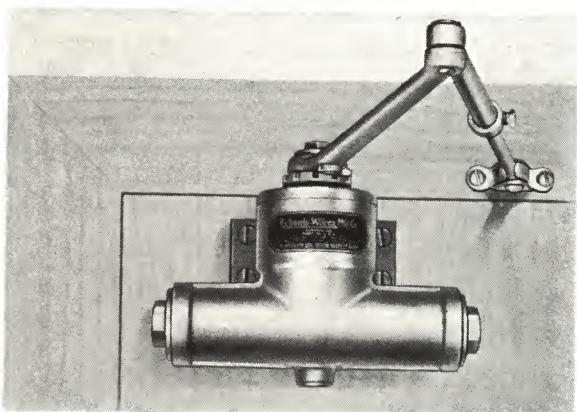
•Finish

Hot galvanized finish.

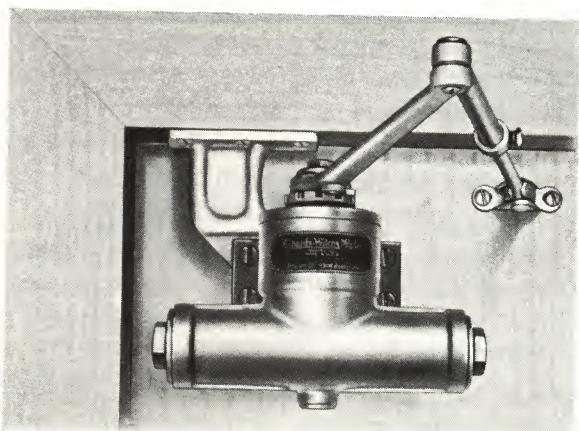
•Weight

Cat. No.	Weight per Hundred
262-1	136 lbs.
262-2	185 lbs.
262-3	200 lbs.
262-4	225 lbs.

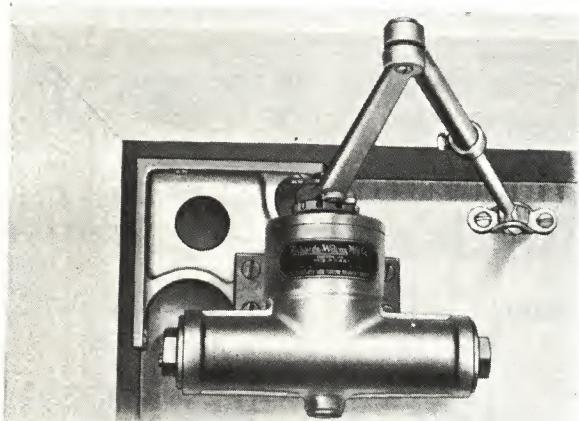
No. 643-N Door Closers



● Standard Attachment



● Attachment by Soffit Bracket



● Attachment by Corner Bracket

● Use

For controlling the closing movement of interior and exterior doors smoothly and quietly.

● Sizes

No. 3N—for medium weight interior doors up to 3' wide or light exterior doors up to 2'6" wide.

No. 4N—for heavy interior or medium weight outside doors up to 3' wide.

No. 5N—for heavy outside doors up to 3'6" wide.

● Attachment

May be attached by any of the special brackets illustrated at left in illustrations No. 2 and No. 3 at an additional cost.

● Packed

One in a box with screws.

● Finish

Gold finish only.

● Weight

No. 643-3N—9 lbs. each.

No. 643-4N—11 lbs. each.

No. 643-5N—14 lbs. each.



Before Ordering
See Page 2 . . .
Be Sure to State
Which Hand Is Required

No. 477 Sliding Folding Telephone Booth Door Fixtures

• Use

Sliding folding fixtures for telephone booth doors.

Note—In plan view that the doors are of unequal widths and hardware is supplied regularly to meet this condition.

• Hardware

No. 477 Hanger: Wheel, metal, 1-3/4" diameter; ball bearing wheels and pendant; pendant swivels; vertical adjustment; for doors 1-3/8" to 2-1/4" thick.

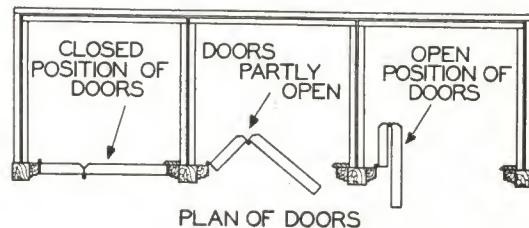
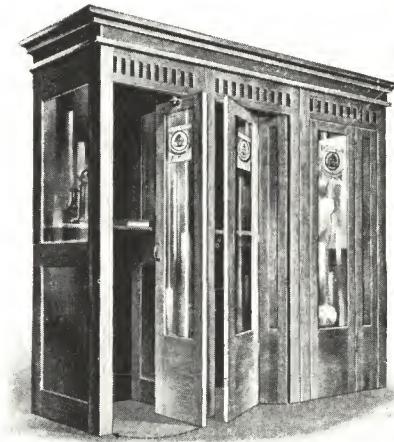
Track: No. 30-1/2 type. No. 16 gauge steel.

Brackets: No. 2 x 30-1/2 end brackets.

Bow Handle: 4" handle.

Hinges: Not furnished by R-W.

All hardware reversible.



• Directions for Ordering

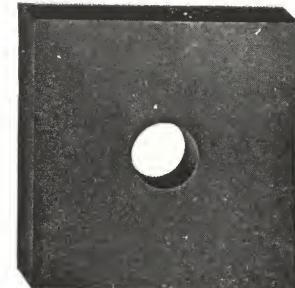
Specify length of track required.

• Weight

Per set, 10 lbs.

No. 366 Heavy Square Steel Washer

Diameter of Bolt in Inches	Diameter Hole in Inches	Size, Inches	Thickness, Inches	Weight per 100
1/2	9/16	2 1/4 x 2 1/4	3/16	25 lbs.
5/8	11/16	3 x 3	1/4	50 lbs.
3/4	13/16	3 1/2 x 3 1/2	3/8	125 lbs.



Note—Always specify size of bolt. Packed in bulk.

Steel Foot Scrapers

No.	Width	Height	Packed	Finish	Weight per 100
111	5 3/4"	2"	Bulk	Gray Enamel	30 lbs.
110	5 3/4"	2 1/2"	Dozens	Gray Enamel	67 lbs.



No. 110



No. 111

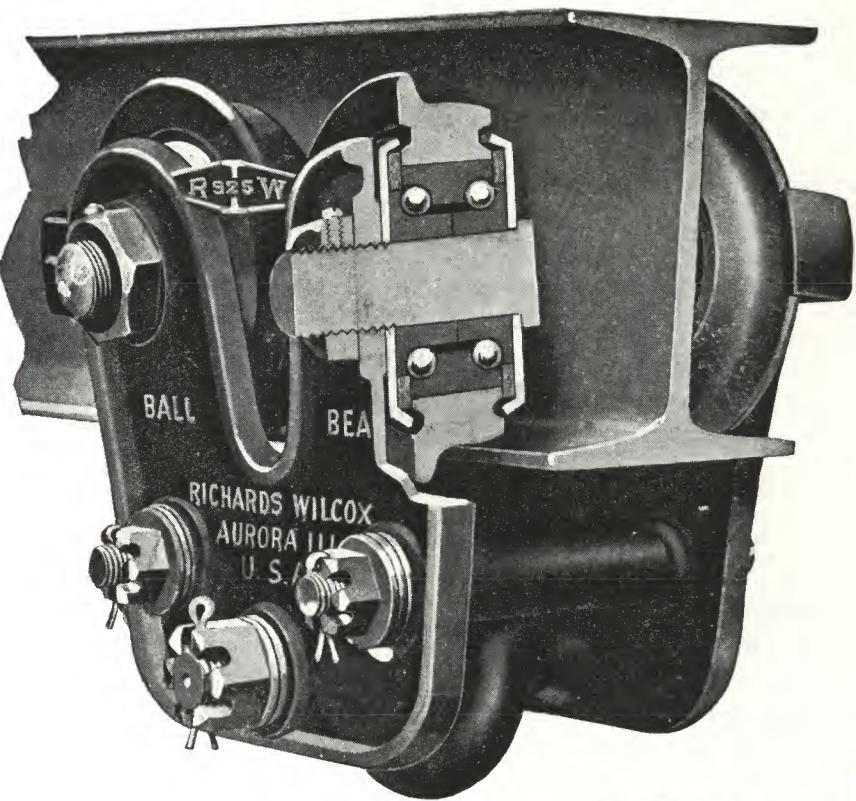
Nos. 925 and 925XHI Ball Bearing Trolleys

These trolleys are built in two styles, the regular and the XHI. The 925 regular is built for normal service and is made as compact as possible; while the XHI, shown at the right, is designed to give greater clearance below the bottom of the track. It is often necessary to have a trolley with greater clearances due to extra heavy bottom joint plates, flipper stops, or other obstructions. A table showing clearances on both types of trolleys will be found on next page. Same price prevails for either trolley.

In the development of the 925 trolley, the R-W Company sought to present to industry the finest trolley ever produced.

High test malleable iron side plates and yokes, wheels of hard gray iron with chilled crowned treads, short operating wheel base, combination radial and thrust bearings and grade "AA" high duty chrome alloy steel balls all have contributed to the reputation for unequalled performance in the 925 trolley.

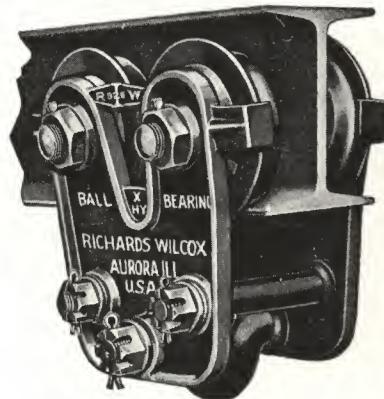
Permanent lubrication is provided by means of felt seal washers which feed oil to the bearings and also exclude dust, dirt, and foreign matter. Even distribution of the load on all four wheels is insured by means of self-equalizing spreader rods.



No. 925XHI

No Other Trolley Has All These Features

1. Short wheel base permits trolley to operate easily on curves.
2. Felt retainers and stamped metal covers exclude dust and dirt. Positive and permanent lubrication is provided as felt absorbs and feeds oil to bearings continually.
3. Combined Radial and Thrust bearings. Hardened and ground ball races. High duty chrome alloy balls.
4. Adjustable to various sizes of track by merely shifting washers from outside to inside of side plates.
5. Bumpers to protect all wheels from shock when trolleys run together or strike end stops.
6. Wheels crowned to minimize friction and are deep chilled, hard and wear resisting.
7. Self-equalizing spreader rods distribute the load evenly on all four wheels.



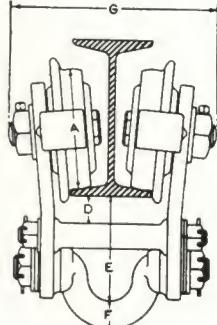
Extra High Side Plates Provide Additional Space Below Track

R-W No. 925 Trolley Yokes

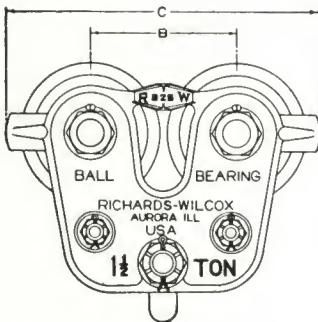


Yoke "J" regularly comes with trolleys that fit standard sizes of tracks listed in table. When trolleys are adjusted to large sizes, yoke "K" is furnished. "L" is a special yoke furnished when swivel Pendant Bolt connections to the trolley are wanted.

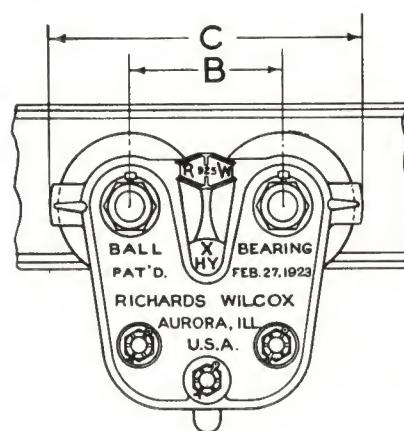
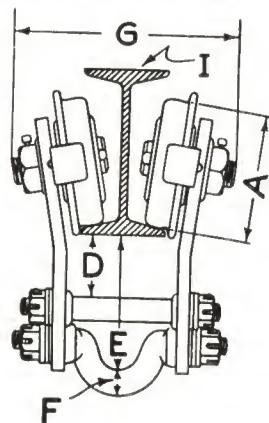
No. 925 Ball Bearing Trolleys—Cont.



No. 925 Regular Trolleys



Dimensions and List Prices



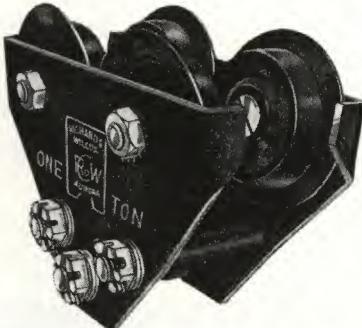
No. 926XHI Trolleys

No. and Capacity of Trolley, Tons	*Standard Size of Steel Beam, Inches	Width of Wheel-Tread, Inches	A	B	C	Reg. 925 D	XHI D	Reg. 925 E	XHI E	F	†G	Pull Required to Move Load, Lbs.	Reg. 925 Weight, Lbs.
925- $\frac{1}{4}$	4, 5, 6	$\frac{5}{8}$	3 $\frac{1}{4}$	3 $\frac{1}{4}$	8 $\frac{1}{4}$	1	1 $\frac{3}{4}$	3 $\frac{1}{4}$	4	1 $\frac{1}{16}$	6 $\frac{1}{4}$	5	12
925- $\frac{1}{2}$	5, 6, 7	$\frac{3}{4}$	3 $\frac{3}{4}$	4 $\frac{11}{16}$	10 $\frac{1}{4}$	1	1 $\frac{3}{4}$	3 $\frac{1}{4}$	4 $\frac{1}{4}$	1 $\frac{1}{16}$	7 $\frac{1}{2}$	8	31
925-1	6, 7, 8	1 $\frac{1}{8}$	4 $\frac{5}{8}$	5 $\frac{3}{4}$	12 $\frac{1}{4}$	1 $\frac{1}{4}$	2	4	4 $\frac{3}{4}$	1 $\frac{1}{4}$	8	18	50
925-1 $\frac{1}{2}$	7, 8, 9	1 $\frac{1}{8}$	5 $\frac{1}{2}$	6 $\frac{3}{8}$	14 $\frac{1}{2}$	1 $\frac{1}{4}$	2	4 $\frac{1}{4}$	5 $\frac{1}{2}$	1 $\frac{1}{4}$	9 $\frac{1}{2}$	21	80
925-2	8, 9, 10	1 $\frac{1}{8}$	6 $\frac{1}{8}$	7 $\frac{15}{16}$	16 $\frac{1}{4}$	1 $\frac{1}{4}$	2	5	5 $\frac{3}{4}$	1 $\frac{1}{4}$	10 $\frac{1}{4}$	23	110
925-3	9, 10, 12	1 $\frac{1}{8}$	7 $\frac{1}{8}$	9 $\frac{1}{16}$	19	1 $\frac{1}{4}$	2	5 $\frac{1}{4}$	6 $\frac{1}{4}$	1 $\frac{1}{2}$	11 $\frac{1}{4}$	34	160
925-4	10, 12, 15	1 $\frac{1}{2}$	7 $\frac{15}{16}$	10	21	1 $\frac{1}{4}$	2	6	6 $\frac{3}{4}$	1 $\frac{1}{2}$	12 $\frac{1}{4}$	44	200

*Trolleys can be furnished to run on larger size track or Bethlehem I-Beams at a slight additional charge.

†This dimension applies to trolleys running on smallest of the three tracks of each capacity listed in column two. Add 11/32" for each larger size Steel Beam. XHI trolleys weigh about 10% more than weight shown for regular 925. Unless otherwise specified, 925 regular will be furnished.

No. 1030
Plain

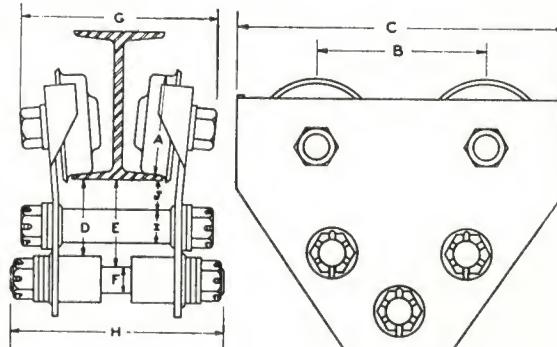


Steel Plate Trolleys

No. 1031
Zerk

Steel plate Trolleys have been developed to meet a demand for an inexpensive intermittent duty trolley where ease of operation is not an important factor. Two types are regularly made, No. 1030 equipped with plain pressed steel ball bearing wheels, and No. 1031 equipped with enclosed dustproof ball bearing assembly and Zerk fittings.

The sides are sheared from rolled steel plates of varying thickness and are press formed and jig drilled. Side plates are slightly tapered and the wheels set at a slight angle on the track to eliminate wobble. A special equalizing arrangement takes up unevenness in the track and keeps the load equally distributed on all wheels.



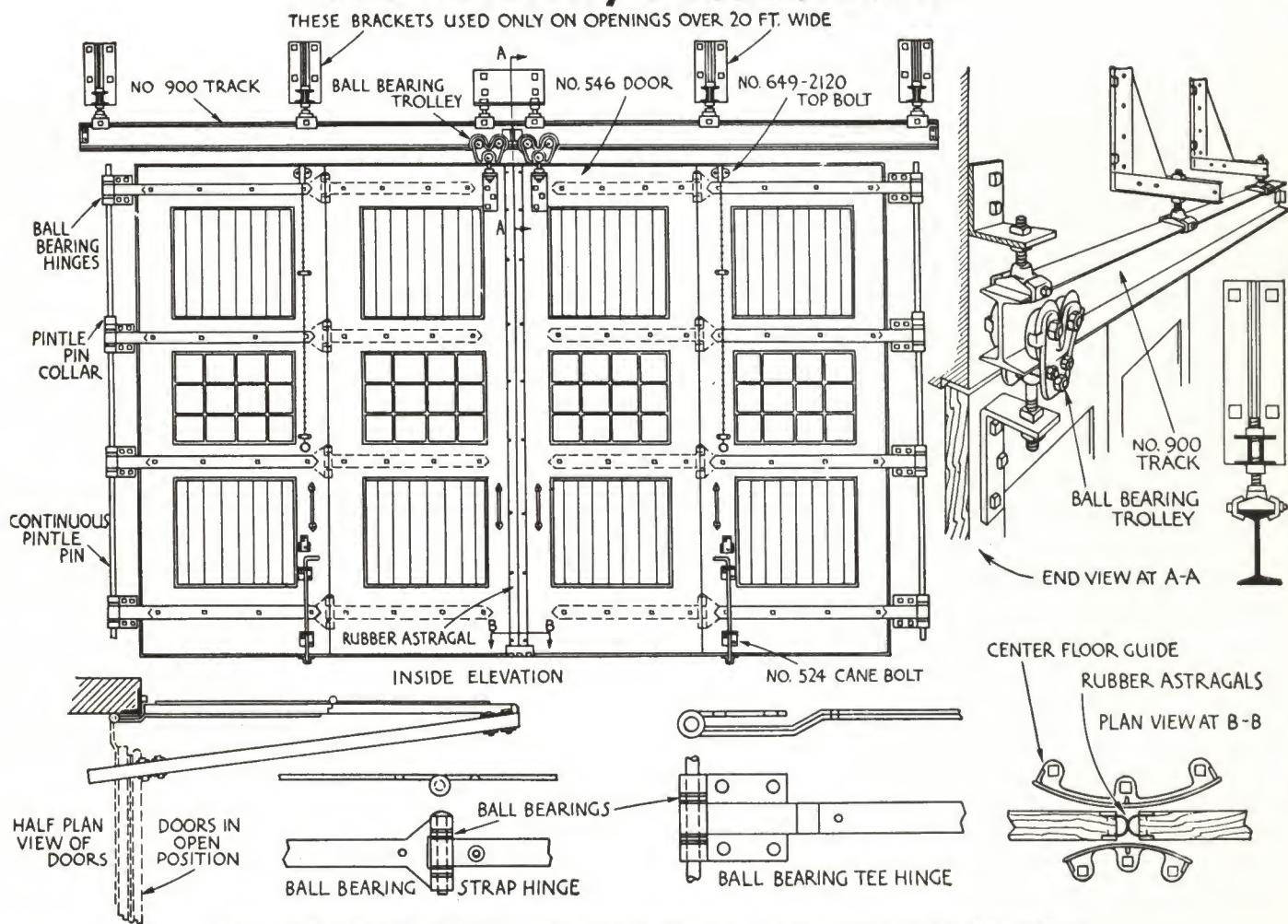
Dimensions

Capacity Tons	*Standard Track Sizes	Net Weight Pounds	A	B	C	D	E	F	G Plain †	G Zerk †	H	I	J
$\frac{1}{4}$	4, 5, 6, 7	16	3 $\frac{1}{8}$ "	4 $\frac{5}{8}$ "	9 $\frac{1}{4}$ "	2 $\frac{1}{4}$ "	2 $\frac{1}{4}$ "	$\frac{7}{8}$ "	6 $\frac{3}{8}$ "	7 $\frac{3}{8}$ "	6 $\frac{1}{8}$ "	$\frac{3}{4}$ "	$\frac{5}{8}$ "
$\frac{1}{2}$	5, 6, 7, 8	18	3 $\frac{1}{8}$ "	4 $\frac{5}{8}$ "	9 $\frac{1}{8}$ "	2 $\frac{1}{4}$ "	2 $\frac{1}{4}$ "	1"	6 $\frac{1}{4}$ "	7 $\frac{1}{4}$ "	6 $\frac{3}{8}$ "	$\frac{3}{4}$ "	$\frac{5}{8}$ "
1	6, 7, 8, 9	25	4"	6"	12 $\frac{1}{4}$ "	2 $\frac{1}{4}$ "	2 $\frac{1}{4}$ "	1"	7 $\frac{1}{8}$ "	8 $\frac{1}{2}$ "	7 $\frac{1}{8}$ "	$\frac{3}{4}$ "	1 $\frac{1}{8}$ "
2	7, 8, 9, 10, 12	48	4 $\frac{1}{8}$ "	7 $\frac{1}{4}$ "	15"	2 $\frac{1}{4}$ "	2 $\frac{1}{4}$ "	1 $\frac{1}{4}$ "	8 $\frac{1}{4}$ "	9 $\frac{1}{4}$ "	8 $\frac{1}{4}$ "	$\frac{3}{4}$ "	1 $\frac{1}{8}$ "

*When ordering be sure to specify which type is desired.

†This dimension applies to trolleys running on smallest size track of each capacity listed in column two. Add 11/32" for each larger size track.

No. 1434 Heavy 4-Door Hardware

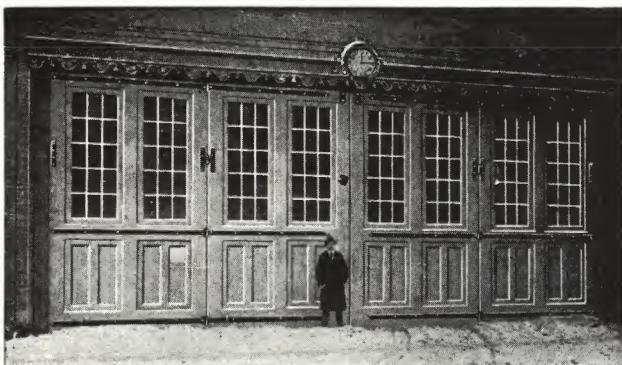


No. 1434 Heavy 4-Door Hardware Using I-Beam Track and Trolleys

The principle of operation of this hardware is similar to the No. 434 illustrated on pages 166-167, but the hardware is much heavier throughout and R-W Steelbeam Track and Ball Bearing Trolleys (similar to those shown on next page) replace the trolley track and hangers used with No. 434. The table on page 167 will give you an idea as to the size of openings this hardware will handle.

Big door installations are always special and demand special engineering. It is very important to use the proper equipment to successfully handle such openings and our Engineering Department stands ready at all times to work up preliminary layouts, details and estimates on any door-way problem you may have.

No. 2235 Hardware for Exceptionally Wide 4-Door Openings

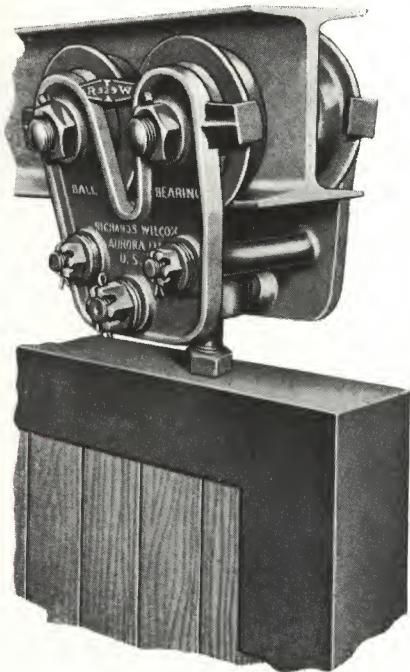


Where 4-door openings are more than 22 feet wide, No. 2235 hardware should be used. As you will note from illustration at right, the regular No. 1434 hardware is supplemented by two curved sections of Steelbeam track with trolleys, which give ample additional support needed to carry such wide doors.



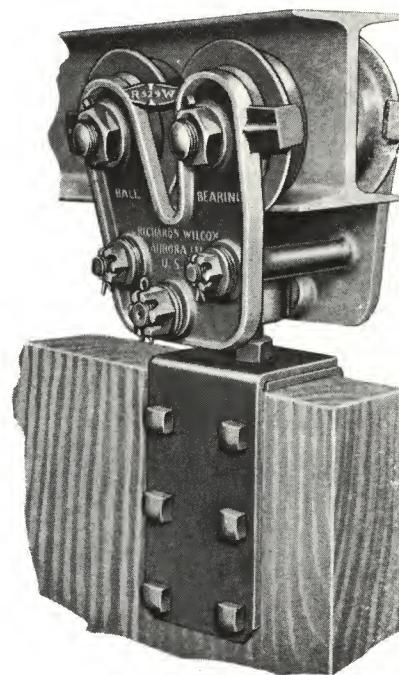
The table on page 167 gives information regarding this 2235 hardware, although we recommend that our Engineering Department be consulted as to the proper hardware to use on all exceptionally large openings. Our experienced engineers will study your individual requirements and make recommendations and sketches for your consideration.

I-Beam Trolleys for Doors



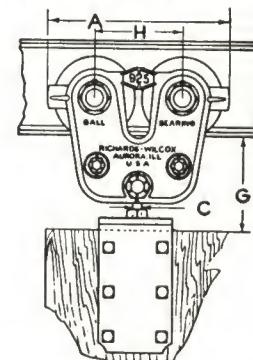
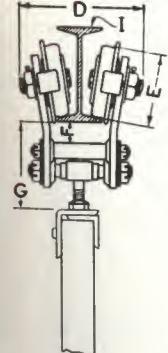
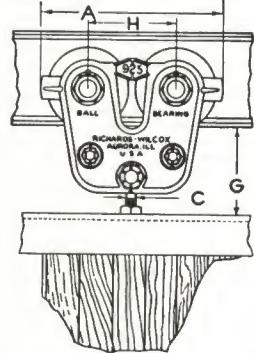
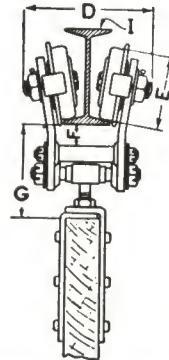
No. 928

See Application
of These Hangers
to No. 1434
Big Door
Hardware
on Opposite Page



No. 929

Hanger with Apron Attachment for Doors



These hangers are for use on very heavy doors and for doors where the service conditions are very severe. Being ball-bearing they operate smoothly and easily. Plates and aprons are made to special order to

fit the particular doors on which they are to be used. In ordering always give thickness and size of door.

Weight and Dimension Table

Hanger No.	Maximum Weight of Door, Lbs.	*Size of Track On Which Standard Hanger Will Run, Ins.	†Min. Distance from Center of Track to Wall, Ins.	A Ins.	B Ins.	C Ins.	†D Ins.	E Ins.	F Ins.	Min. G Ins.		H Ins.	Weight, Lbs. Per Pair		Pull Required to Start Full Load Lbs.
										928	929		No. 928	No. 929	
928-1/2 or 929-1/2	1,000	4, 5, 6	4	8 1/4	1 1/2	3/4	6 1/4	2 15/16	3/4	5 7/8	4 1/2	3 13/16	51	62	20
928-1/2 or 929-1/2	2,000	5, 6, 7	4 1/2	10 1/4	1 1/8	7/8	7 1/4	3 3/4	1	6 3/4	5 1/4	4 13/16	86	99	34
928-1 or 929-1	4,000	6, 7, 8	5	12 1/4	1 3/4	1	8	4 1/2	1 1/4	8 1/8	6 1/4	5 3/4	145	155	74
928-1 1/2 or 929-1 1/2	6,000	7, 8, 9	5 1/2	14 1/4	1 1/8	1 1/8	9 1/2	5 1/2	1 1/4	8 7/8	6 1/8	6 7/8	194	213	90
928-2 or 929-2	8,000	8, 9, 10	6	16 1/4	2	1 1/4	10 1/4	6 1/8	1 1/4	9 1/2	7 1/4	7 15/16	274	282	100
928-3 or 929-3	12,000	9, 10, 12	6 1/2	19	2 1/8	1 1/8	11 1/4	7 1/8	1 1/4	10 1/4	8	9 1/8	400	407	150
928-4 or 929-4	16,000	10, 12, 15	7	21	2 3/8	1 1/8	12 1/4	7 15/16	1 1/4	11	9	10	501	523	190

Note—*Hangers can be fitted to larger sizes of track at an additional price. Sometimes larger sizes of track are required on account of the distance between supporting points. Recommendations as to proper size of track should be secured from our engineering department. In making such requests give information as to where supports can be located and state weight of door.

†This dimension applies to the smallest size of track for each hanger as listed in column 3.

‡For larger sizes of track add one-half the difference in width of tracks.

§Easier running can be obtained by using larger size hangers.

Tracks are priced on application.

Track Supports are extra and price depends upon requirements.

No. 434 Roundhouse, Shop and Large Warehouse Door Hardware

•Use

For large wood or steel doors demanding heavy durable hardware.

•Hardware

Sets consist of tracks, brackets, hangers, hinges, lock bolts and hold open latches. When wicket doors are used, hinges and latch are furnished.

Track: Size as required by weight of doors.

Maximum Permissible Weight of Set of 4 Doors	Size Track to Be Used
Up to 1600 lbs.....	175
Over 1600 up to 2000 lbs.....	375
Over 2000 up to 2400 lbs.....	233
Over 2400 up to 4000 lbs.....	533

When service is severe and doors are subjected to rough usage or extreme weather conditions, next larger size track is recommended.

Brackets: Similar in appearance to No. 1035 brackets (pages 26-27) but of heavier material and in larger sizes to fit track used.

Hangers: Nos. 2434-5, 6, 7, and 8 (page 12).

Hinges: Jamb hinges usually No. 434B, C, or D (pages 147-148), depending upon jamb conditions.

Two doors of each pair usually connected by double strap hinges No. 434J or K (page 149).

Hinge leaves made substantially as long as door is wide and bolt holes in one leave of double strap hinges are made to correspond with holes in jamb hinge.

For number of hinges required for various size openings, see opposite page.

Door Bolts: No. 524 Cane Bolts (page 120) are used at bottom of door at the hinged joint where two doors are hinged together. No. 434C, R, or T spring bolts (page 121) are used at the same position at the top of the door.

No. 1017 Cremone Bolt (page 125) used for extra-heavy doors.

Weatherstrip: No. 216-1 Rubber Weatherstrip (page 143) used in vertical edges of doors of center of doorway; No. 216-2 (page 143) along the bottom of doors.

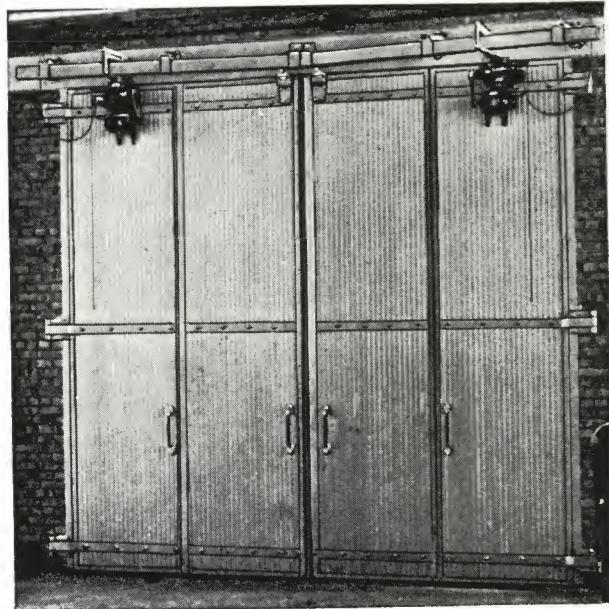
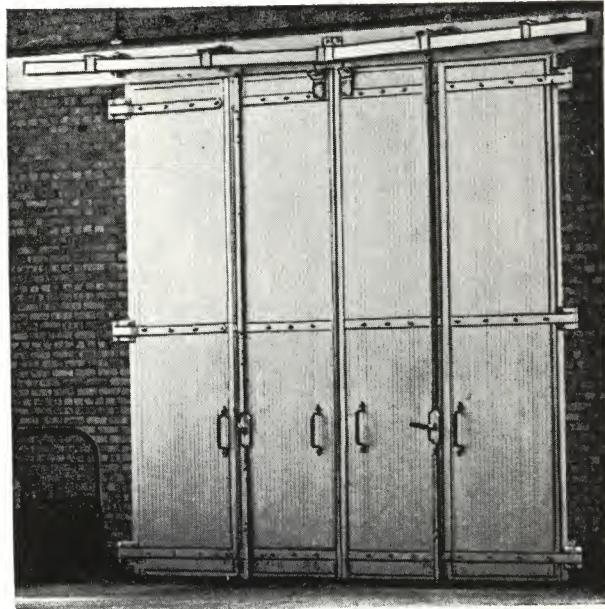
•Directions for Ordering

State width and height of opening, thickness of doors, if doors are wood or metal.

Describe construction of doorway jambs.

Send detail drawings if possible.

All doors in an opening must be of equal width.

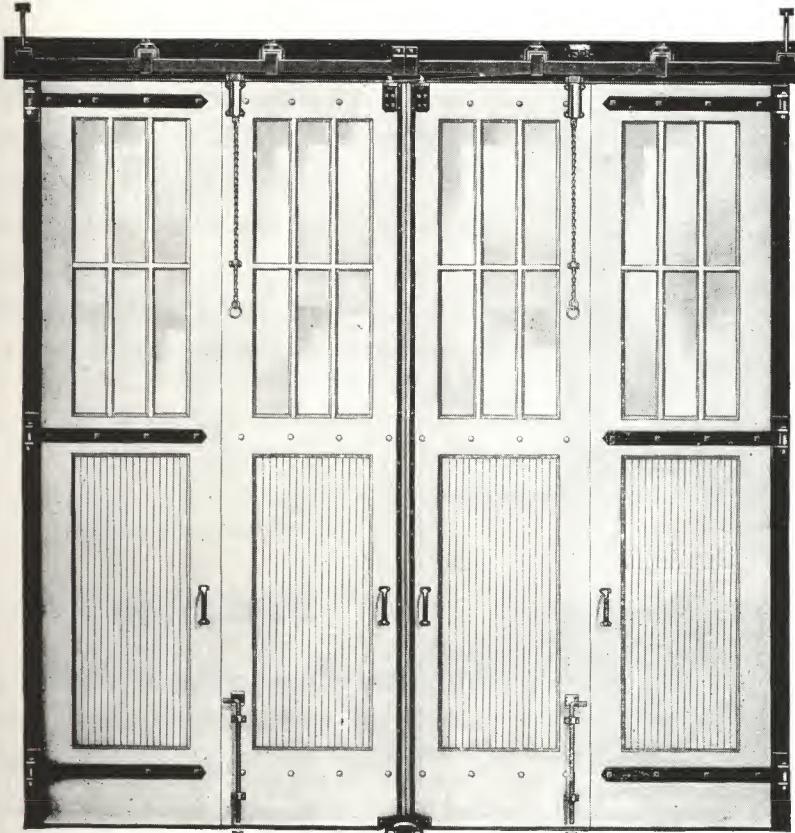


•Weight

No. 434 Hardware:	Wt. per Set
with 3 sets of hinges.....	725 lbs.
with 4 sets of hinges.....	850 lbs.
with 5 sets of hinges.....	1000 lbs.
with 6 sets of hinges.....	1175 lbs.

Wicket door hardware only 20 lbs.

No. 434 Roundhouse, Shop, and Large Warehouse Door Hardware



Hinges Required for Height of Opening

Doors up to 12' high require 3 hinges;
 Doors 12'1" to 16' high require 4 hinges;
 Doors 16'1" to 22' high require 5 hinges.

For maximum widths of openings and weights of doors, see table below for proper size of hinge to use.

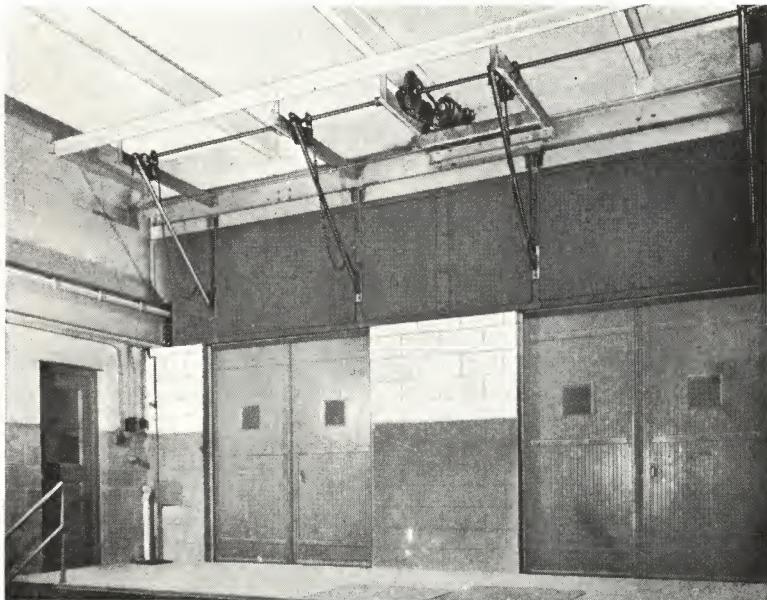
If the width of opening or weight of doors exceeds the maximum given in table below for the number of hinges suggested in above table, increase the number of hinges.

Maximum weights of a set of 4 doors per opening which can be safely carried by hinges listed, using No. 434, No. 1434, and No. 2235 hardware (see page 164).

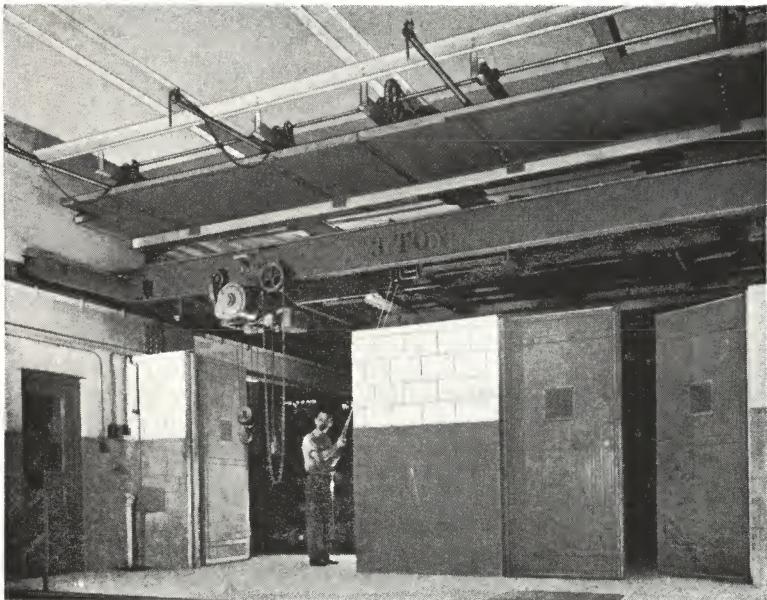
Number and Size of Hinges at Each Jamb	WIDTH OF OPENINGS									
	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'
3 Hinges $\frac{3}{8}'' \times 2\frac{1}{2}''$	1313	1166	1045	947	867	799	.....	.....	.....	.....
4 Hinges $\frac{3}{8}'' \times 2\frac{1}{2}''$	1751	1555	1393	1263	1156	1065	.....	.....	.....	.....
5 Hinges $\frac{3}{8}'' \times 2\frac{1}{2}''$	2189	1944	1741	1579	1445	1331	.....	.....	.....	.....
3 Hinges $\frac{3}{8}'' \times 3''$	1900	1678	1505	1365	1250	1152	.....	.....	.....	.....
4 Hinges $\frac{3}{8}'' \times 3''$	2533	2237	2007	1820	1667	1536	.....	.....	.....	.....
5 Hinges $\frac{3}{8}'' \times 3''$	3166	2796	2496	2275	2084	1920	.....	.....	.....	.....
3 Hinges $\frac{1}{2}'' \times 3''$	2715	2406	2160	1959	1793	1653	1533	1430	.....	.....
4 Hinges $\frac{1}{2}'' \times 3''$	3620	3208	2880	2612	2391	2204	2044	1907	.....	.....
5 Hinges $\frac{1}{2}'' \times 3''$	*4525	4010	3600	3265	2989	2755	2555	2384	.....	.....
6 Hinges $\frac{1}{2}'' \times 3''$	*5430	*4812	*4320	3918	3587	3306	3066	2861	.....	.....
3 Hinges $\frac{1}{2}'' \times 4''$	*4827	*4277	3840	3484	3188	2938	2725	2541	2379	2238
4 Hinges $\frac{1}{2}'' \times 4''$	*6436	*5703	*5120	*4645	*4251	3917	3633	3388	3172	2984
5 Hinges $\frac{1}{2}'' \times 4''$	*8045	*7129	*6400	*5806	*5314	*4896	*4541	*4235	3965	3730
6 Hinges $\frac{1}{2}'' \times 4''$	*9654	*8555	*7680	*6967	*6377	*5875	*5449	*5080	*4758	*4476

*Use No. 1434 or No. 2235 Hardware on doors of weight indicated thus. If doorways are over 22' wide, we recommend No. 1235 or No. 2235 Hardware.

CRANEWAY HARDWARE



Craneway doors in closed position.



Craneway doors in open position.

PASSAGE FOR CRANES

This is the modern way of crane passage. These doors soon pay for themselves . . . minimize cold drafts in winter, providing a savings in heating costs . . . help to maintain even comfortable temperature in winter and summer . . . eliminate loss of conditioned air, reduce maintenance and operating costs on air conditioned equipment.

OPERATION

Craneway doors are electrically operated. Styles of Industrial doors are shown in Catalog No. 410 and are ideal for craneway use . . . each installation is completely engineered to meet existing conditions. Doors can be electrically interlocked to work in connection with crane.

Data Required for Ordering

- ARCHITECTURAL DETAILS OF BUILDING OF CRANEWAY DOOR AREA.
- SPECIFY WHETHER DOORS ARE TO SWING IN OR OUT.
- STATE EXISTING WIND CONDITIONS IN POUNDS PER SQUARE FOOT THE DOOR IS TO WITHSTAND TO OPERATE PROPERLY IN YOUR AREA.

FIRE STATION HARDWARE

For Sliding Doors

***(For Sliding-Folding Doors See Pages 166-167)**

● Use

For sliding fire station doors for doorways large enough to admit two or three pieces of fire fighting equipment.

● Operation

Doors are electrically operated by R-W electric operators controlled by push button stations located in control room or other convenient locations.

Doors may be closed automatically by time switch control following a predetermined lapse of time after the doors are opened.

● Hardware for Sliding Doors

Sets include Rich-Wil ball bearing hangers (either No. 828 two speed hangers for four door openings or No. 829 three speed hangers for six door openings), rubber weatherstrips or astragals, floor guides and track, and R-W electric operators.

* ● Hardware for Slide-Fold Doors

The hardware is No. 434 heavy-duty Slidetite (pages 166-167) which consists of tracks, hangers, hinges, trim hardware, rubber weatherstrips, and R-W electric operators.

● Doors

Any door shown in the Industrial Door Catalog No. 410 is ideal for this style operation.

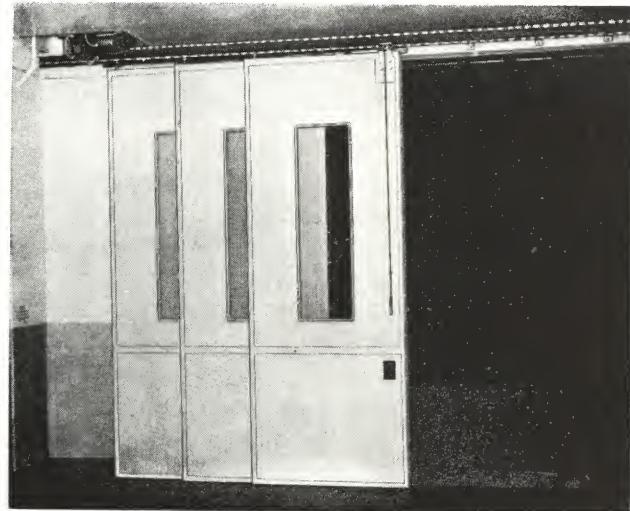
● Directions for Ordering for Both Styles

State width and height of opening, thickness of doors and if doors are wood or metal.

Describe construction of doorway jambs.

Send detail drawings, if possible.

All doors in opening must be of equal width.



● Sliding Doors

One Half of Six Door Opening Showing Doors Partially Opened



* ● Sliding-Folding

(Hardware for this style operation found on pages 166-167.)

Heavy Duty Parallel Door Equipment

For doors weighing not more than 800 lbs.

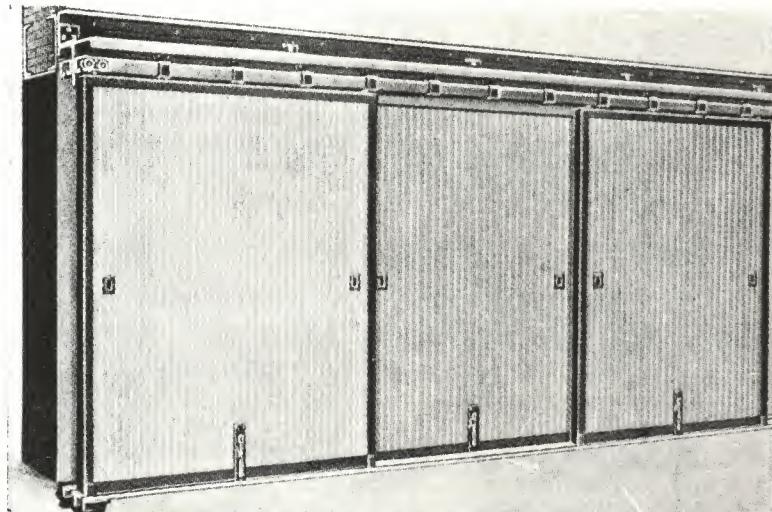
Nos. 251, 253, and 258 Trolley Track Type

R-W parallel door equipment permits an opening at any place desired.

Tracks as shown at left are assembled complete in sections to accommodate different size openings. They are suitable for attaching to any construction. No. 251 Type Drop Bracket for overhead attachment; No. 253 Type Plain Bracket for overhead attachment; No. 258 Type for sidewall attachment.

Weatherstrip extends below top of door making equipment stormproof.

Details furnished on request.



No. 251 Type Track with R-W No. 448 Super-Way Doors (See Page 174). (We Do Not Furnish Channels or Beams to Which Tracks Are Shown Attached.)

WEIGHT TABLE

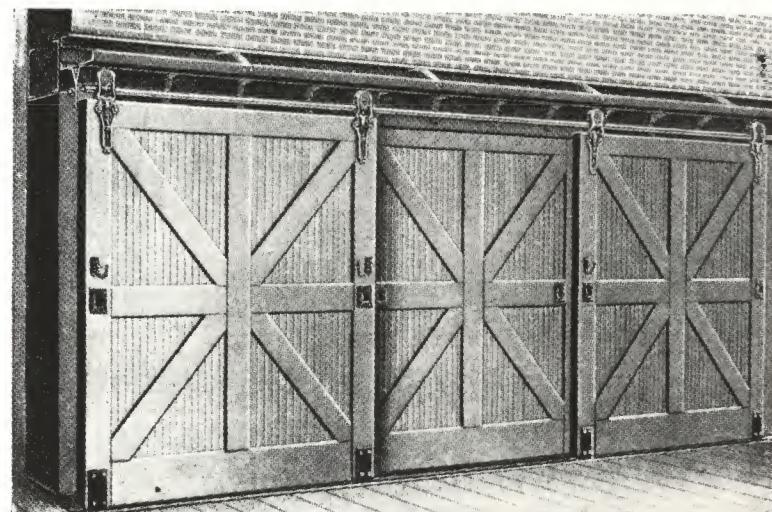
No. 251 Parallel Track, No. 33 Size with Weatherstrip.....	20 Lbs. per Ft.
No. 253 Parallel Track, No. 33 Size with Weatherstrip.....	18 Lbs. per Ft.
No. 258 Parallel Track, No. 33 Size with Weatherstrip.....	20 Lbs. per Ft.
No. 150-1/2 B-1 or 2 Hanger.....	21 Lbs. per Pair

No. 255 Round Track Type

Round track parallel door equipment operates in the same manner as trolley track above. It is assembled complete in sections to accommodate different size openings and is suitable for attaching to any construction.

Weatherstrip extends below top of door making it stormproof.

Details furnished on request.



No. 255 Type Track Used with Parallel Doors. (We Do Not Furnish Channels to Which Tracks Are Attached.)

WEIGHT TABLE

No. 255 Parallel Track, No. 542-C Size with Weatherstrip.....	12 Lbs. per Ft.
No. 642-5 Hanger.....	33 Lbs. per Pair

No. 703 Vertical Lift Door Hardware

•Use

For light or medium size straight vertical lift doors from 1-3/4" to 2-1/2" thick, weighing up to 900 lbs. each.

•Operation

Doors are counterbalanced by weights operating in weight boxes.

When doors weigh less than 600 lbs., a single set of weights and one weight box is used which may be installed on either side of door. When doors weigh between 600 and 900 lbs., the weights must be divided with one set on each side of door.

•Made in Two Sizes

No. 703-1, for doors 1-3/4" thick, weighing up to 350 lbs. Track is made of No. 13 gauge steel for guide rollers, 1-3/4" in diameter.

No. 703-2, for doors 1-3/4" to 2-1/2" thick, weighing between 350 and 900 lbs. Track is made of No. 11 gauge steel for guide rollers, 2-3/4" in diameter.

Tracks are attached to continuous steel angles. All rollers are made of steel with seamless steel treads and ball bearings.

Figure length of each track as twice the height of the opening for estimating purposes.

•Weight

No. 703-1 fixtures only less track, counterweights and weight boxes, 65 lbs. No. 703-1 tracks, 3-1/2 lbs. per foot.

No. 703-2 fixtures only less track, counterweights and weight boxes, 75 lbs. No. 703-2 tracks, 5-3/4 lbs. per foot.

Weight boxes 1-1/2 lbs. per foot. Figure length of the weight box 1-1/2 times height of opening for estimating purposes.

Counterweights are required equal to the weight of the door.

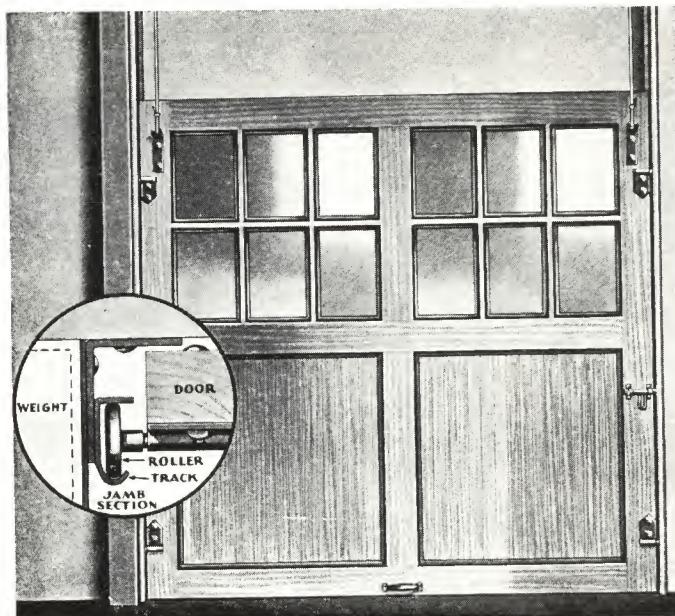


Illustration Shows Application of a Set of No. 703-1 Hardware.

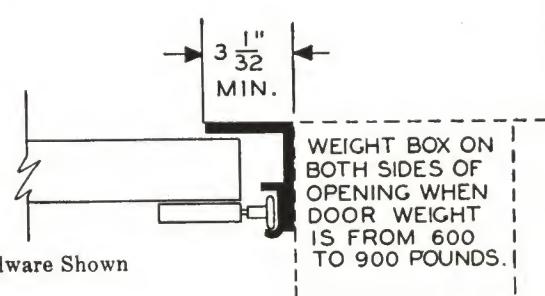
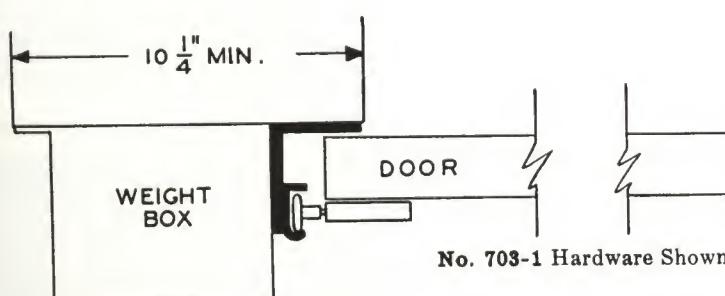
•Data Required with Order

Thickness of doors must be specified because tracks are assembled to suit door thickness.

Height of opening for length of track and weight boxes.

Weight of doors for correct amount counterweights.

Specify amount of side and headroom available.



Two and Three Section Doors

Also available are 2 and 3 section doors . . . this hardware is specifically designed to each installation . . . send data concerning each opening.

R-W Electric

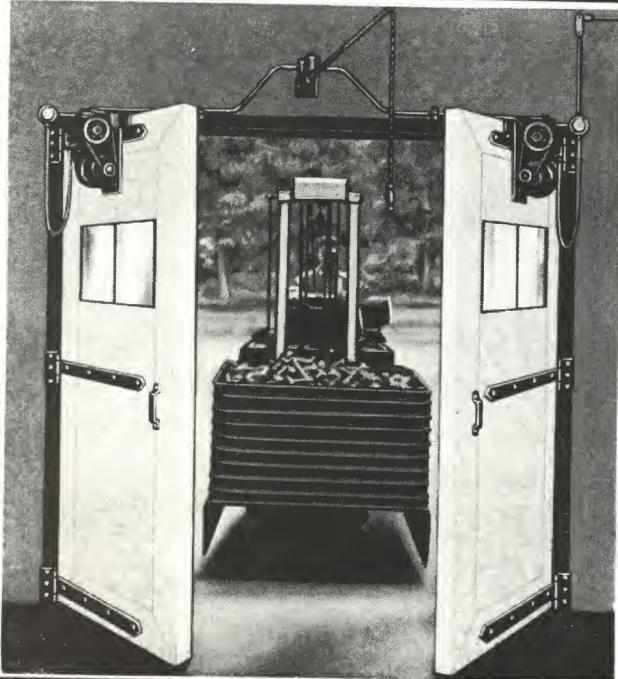


OPERATORS

Richards-Wilcox offers a complete line of time-tested, Electric Door Operators designed to increase plant efficiency, employee comfort and safety. Smooth, automatic door operation assures fast, easy movement and hauling between departments . . . saves time involved in manual operation . . . keeps doors tightly closed . . . saves heat in winter and conditioned air in the summer.

R-W Electric "AUT-O-DOR" Operators are specifically designed to give years of dependable service under the rugged demands of industry . . . many have been in service for over 25 years and still function perfectly.

SAVE TIME • MONEY • MANPOWER!



IMPROVE MATERIALS HANDLING AND SPEED-UP PRODUCTION TRAFFIC

R-W Electric "AUT-O-DOR" Operators will help to speed-up plant traffic, smooth traffic flow and eliminate confusion. Swinging, sliding, folding and vertical lift doors can easily be adapted to open and shut automatically, safely and smoothly. Motorized-truck and hand-truck drivers can open and shut doors without the loss of time involved in stopping and starting to open doors and stopping again to close them. R-W Electric "AUT-O-DOR" Operators will save you time, effort and money.

REDUCE DOOR MAINTENANCE!

The installation of automatic door openers will enable you to greatly reduce the time and cost involved in door and equipment maintenance. R-W Electric "AUT-O-DOR" Operators will open plant doors automatically as the traffic approaches, preventing carts and trucks from bumping and springing doors . . . it will hold these doors securely open while the traffic passes thru and then close the door automatically, safely and smoothly. Eliminates door slamming and rough handling by assuring proper door operation.



MODERNIZE PLANT DOOR OPERATION

will...

- SPEED-UP PRODUCTION TRAFFIC!
- IMPROVE MATERIALS HANDLING!
- IMPROVE EMPLOYEE SAFETY and COMFORT!
- SAVE HEAT—PREVENT DRAFTS!
- ELIMINATE CONDITIONED AIR LOSS!
- REDUCE DOOR MAINTENANCE!

IMPROVE EMPLOYEE SAFETY and COMFORT!



SAVE HEAT—PREVENT DRAFTS— ELIMINATE CONDITIONED AIR LOSS

The installation of automatic door operators will completely eliminate the "left-open" door problem. R-W Electric "AUT-O-DOR" Operators will . . . minimize cold drafts in the winter, providing a savings in heating costs . . . help to maintain even comfortable temperatures in winter and summer . . . eliminate loss of conditioned air, reduce maintenance and operating costs on air conditioning equipment. These factors all add up to greater employee comfort for added efficiency and production. Richards-Wilcox exclusive opening and closing action assures fast, easy operation and weather-type closing.

SEND FOR CATALOG No. 200

R-W *Electric* for... OPERATORS

- QUICK, EASY INSTALLATION
- PERFORMANCE & SERVICE
- SIMPLIFIED MAINTENANCE
- OVER-ALL ECONOMY

AVAILABLE IN
THE FOLLOWING:

- SINGLE SLIDE DOORS
- BI-PARTING SLIDING
- SINGLE SWINGING
- DOUBLE SWINGING
- VERTICAL - LIFT
- SLIDING - FOLDING
- CRANEWAY
- ELECTRIC OPERATORS FOR GATES

REDUCE MAINTENANCE COSTS



Richards-Wilcox

Industrial Doors

SEND FOR CATALOG No. 410

No. 448 "SUPER-WAY" STEEL FRAME DOORS [®]

This rugged door is for all types of openings ranging in size from the smaller commercial to the larger industrial and airplane hangar openings . . . interlocking tongue and grooved wood strips team up to form one of the finest industrial doors ever built.

No. 467 STEEL DOORS

For large doorways, in warehouses, industrial buildings, hangars, etc. . . . made of a heavy frame work welded together for rigidity. Corrugated galvanized 24 gauge sheet steel attached to the frame form the rest of the door. Standard door thickness is 3" or 4", thicker doors available when necessary.

No. 453 STEEL COVERED DOORS

A very neat smooth surface all purpose door, neat in appearance for use between departments and can be used with standard fire door hardware or R-W Industrial Door Hardware. The No. 453 was designed to take hard usage and to meet every industrial and commercial requirement.

No. 2347 SHEET METAL DOOR

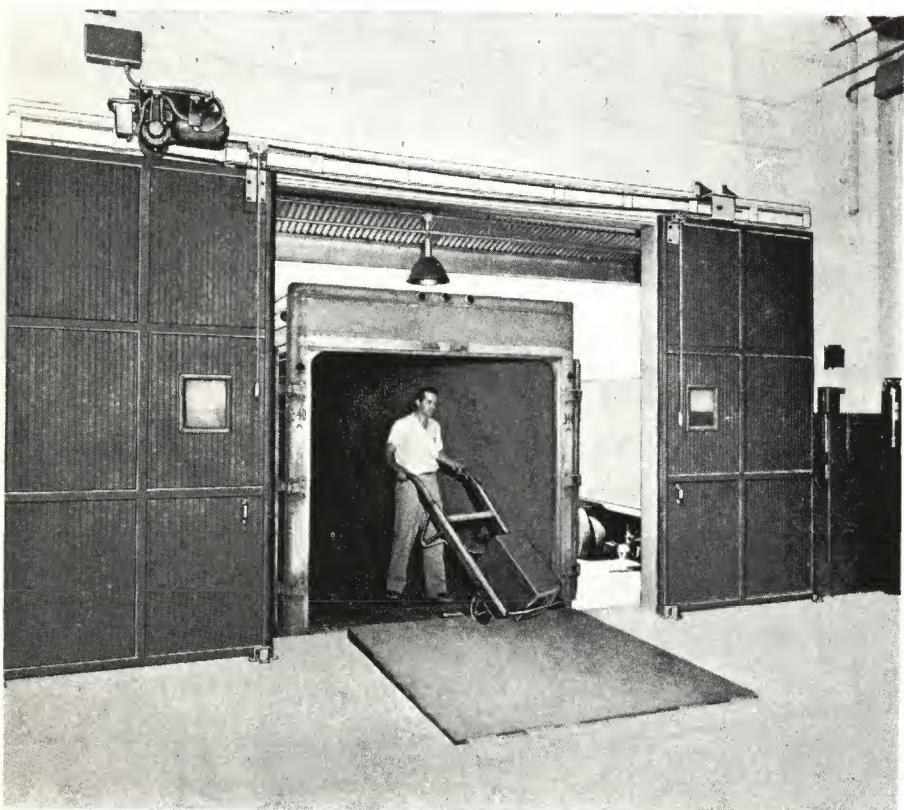
The door is highly recommended where doors are subject to rough usage and where conditions might induce dry rot in another type door. The design of the outer frame on top and bottom consists of a heavy rolled steel angle. The bottom horizontal member is a heavy tee bar having the corrugated sheets fitted to the stem of this tee bar, this eliminates pockets that would otherwise collect dirt and water.

No. 546 STA-RITE WOOD DOOR

The No. 546 "Sta-Rite" door is an all-purpose door for both commercial and industrial openings. The construction is built up of clear grade narrow tongue and grooved strips of wood nailed together. This type of laminated door panel is designed to overcome excessive shrinking and swelling. Every door is treated with a high quality wood preservative to help exclude excessive moisture.

No. 800 SERIES STEEL PLATE

Richards-Wilcox features a wide range of standard sizes and designs while providing the finest in door engineering. Various styles of construction are offered: No. 872, plate one side (tubing); No. 873, plate both sides; No. 874, center panel; No. 875, plate one side . . . angles or channels; No. 876, plates both sides, angles or channels.

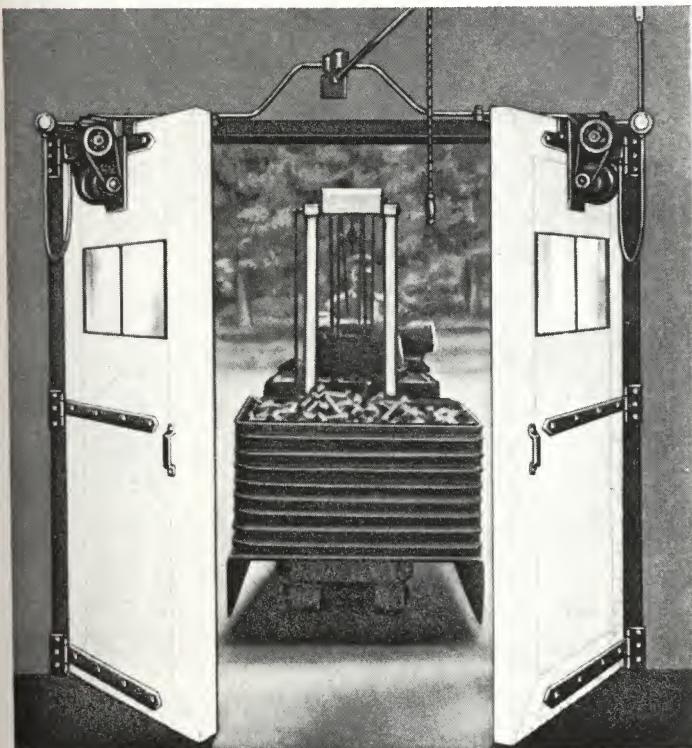


Whether It Swings Slides, or Folds— R-W Has an Industrial Door to Do the Job

Richards-Wilcox offers a complete line of TOP-QUALITY, HEAVY DUTY Electric Door Operators designed and engineered to meet your exact requirements. Like magic, R-W Operators will open and close Swinging . . . Sliding . . . Folding . . . Vertical Lift Doors and Gates. Richards-Wilcox also features a complete line of standard control systems and equipment which can be adapted to give you custom door control. R-W Electric Operators have attained universal acceptance and have established a prestige over 45 years that challenges comparison. The facilities of our trained sales engineers and engineering experience are at your command. Please contact our nearest representative or home office for additional information.

SEND FOR CATALOG No. 200

SWING DOOR OPERATION



R-W Electric "Aut-O-Dor" Operators and R-W Industrial Doors team up to speed up plant traffic. Motorized truck and hand truck drivers can open and shut doors without the loss of time involved in stopping and starting to open doors and stopping again to close them. R-W Electric "Aut-O-Dor" Operators will save you time, effort and money.

Send for Catalog No. 410



SLIDING - FOLDING DOOR OPERATION



Use
RICHARDS-WILCOX
INDUSTRIAL and FIRE DOORS —
DOOR HARDWARE —
ELECTRIC OPERATORS
"Made for each other"



This type door helps minimize cold drafts in winter, providing a savings in heating costs . . . helps to maintain even comfortable temperature in winter and summer.





PIONEERS IN FIRE DOOR FIELD

The two-page fire door spread shown here illustrates some of the various styles of doors and hardware made by Richards-Wilcox.

R-W features three of the finest doors on the market today . . . along with this, there are many styles of fire door hardware sets, which are all shown in an 80 page two-color fire door catalog. There are various other items such as "Motorized Fire Doors" showing you how to use your fire doors as production doors . . . This is done by using R-W Fire Doors and R-W "Aut-O-Dor" electric operators. It is important with today's high cost of production, to save money wherever possible . . . The photo on this page illustrates how it is possible to open and close fire doors without getting off trucks, "Saving Precious Time."

This 80 page booklet has also in it many styles of operation; level track, inclined track and drop bracket for low headroom, single and double door operation. All of these sets are adaptable to any of the three R-W fire doors.

ADVANCED FEATURE

The newest in fire protection is the R-W "Advanced Fire Detector Unit."

Small units placed on the ceiling many feet away from the door . . . If an outbreak of fire should occur, the sudden temperature rise would close these doors . . . far in advance of the fire, shutting off a fresh supply of oxygen.

Fire Doors and Richards-Wilcox

"THE GREATEST NAME IN FIRE DOORS AND HARDWARE"

R-W HAS 3 FINE (APPROVED) DOORS.

No. 647 "FyeR-Ward" Doors.

No. 446 Tin Clad Doors.

No. 347 "FyeR-Wall" Doors.

No. 647 "FyeR-Ward" is one of the best appearing fire doors ever made . . . smooth but rugged in use and is only 1-13/16" thick . . . the 647 door is ideal where appearance is of some importance. It is the best appearing of all fire doors because it lends itself to any surrounding . . . a door of this type enhances rather than detracts from the general appearance of an installation.

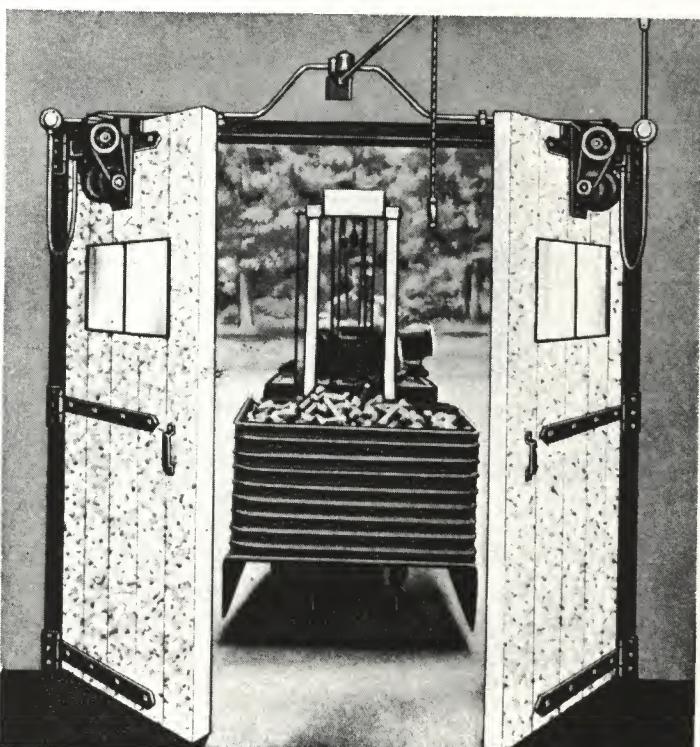
No. 446 is a wood core door which consists of layers of tongued and grooved lumber covered by sheets of terne plate.

This is an ideal door for locations requiring installation with ordinary carpenter's tools.

No. 347 "FyeR-Wall" corrugated sheet metal fire doors are recommended where the door will be subject to rough usage, and where the door would be subject to conditions which might induce dry rot in a tin clad door.

These doors are somewhat more difficult to install than a tin clad door because of the necessity of drilling holes in and making attachments to metal, but may be purchased from the factory with all holes drilled eliminating that difficulty.

Time Is Precious



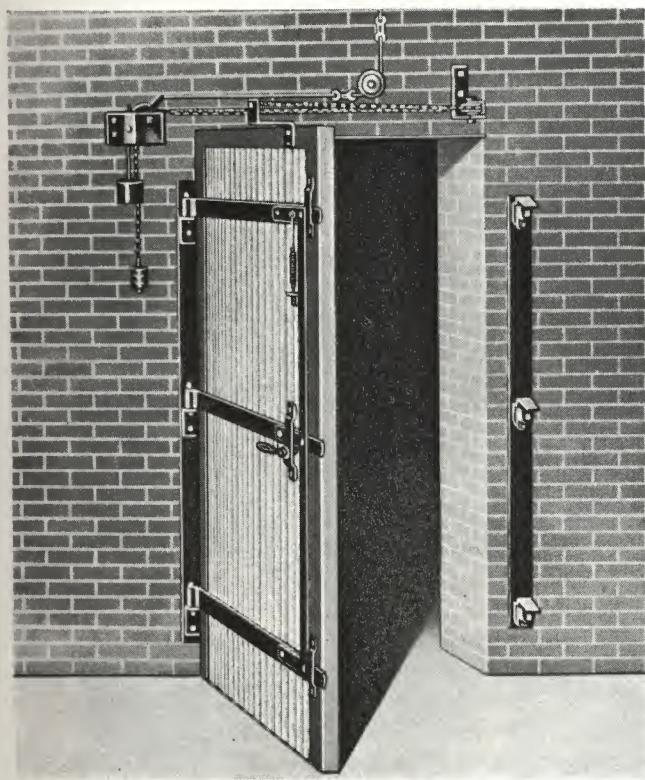
Fire Door Hardware



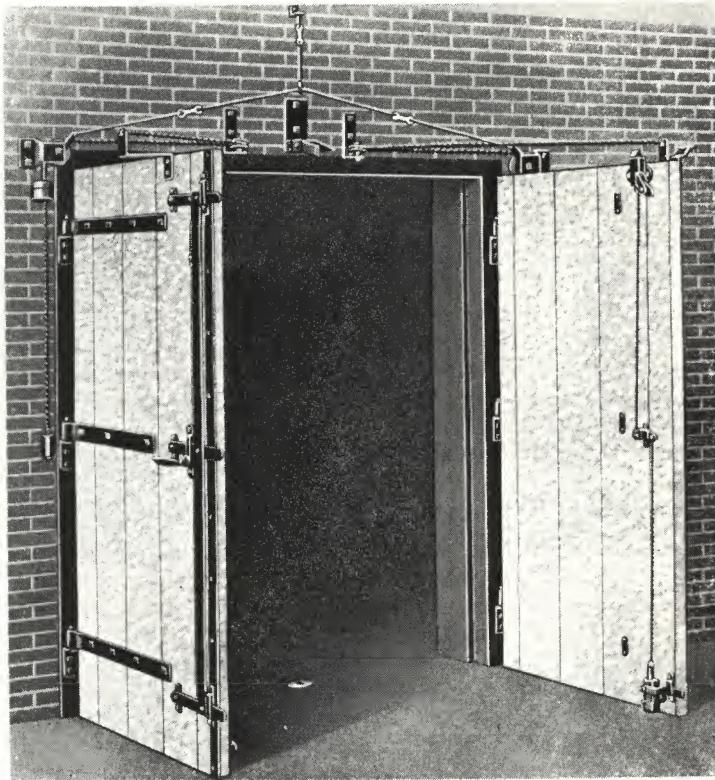
• SINGLE SLIDING



• BI-PARTING



• SINGLE SWINGING



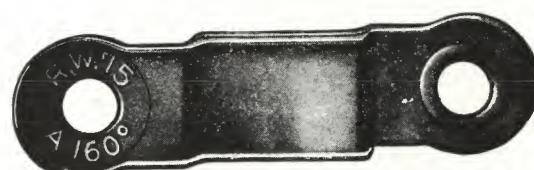
• DOUBLE SWINGING



Fusible Links by R-W

R-W has for many years been the producer of a large share of the fusible link market, offering one of the largest selections available today.

Available in temp. ranges of 125 and 135 Deg. F. for 25-lb. use; in temp. ranges of 160, 212, 286 and 360 Deg. F. for 30-lb. use. See 1970 UL Building Material List or contact R-W for current UL Listings.



Full Size Cut No. 97

R-W Materials

• No. 2035 "Zig-Zag" Power Chain Conveyor

"Zig-Zag" means flexibility . . . with its ability to Zig and Zag vertically, horizontally and up and down . . . Zig-Zag provides unbelievable conveyor flexibility . . . even one-foot radius curves are standard because of the R-W construction of the conveyor.

400 pounds is the rated capacity of a "Zig-Zag" Conveyor. The basic principle of "Zig-Zag" is a patented chain made up from a series of alternating vertical wheel and lateral roller units which run in a tubular steel section.

Any angle or degree can be achieved with a No. 2035 "Zig-Zag" conveyor due to the ability of Zig-Zag to conform to any conveyor configuration.

More detailed information and illustrations are shown in catalog No. A-93—sent free upon request.
Patent Nos. 2,309,587—2,372,199

• Twin-Trak Auto-Dispatch Chain Conveyor

The unique R-W "Twin-Trak" Automatic Dispatch System offers an entirely new concept of efficient and economical handling of materials. This system not only moves materials from one point to another, but will automatically and economically convey products to a predetermined work station or storage area. Storage banks may be installed in the "FREE" area under the building trusses and valuable floor space can be released for production. Products may be automatically moved from storage banks to work stations as they are required.

More detailed information and illustrations are shown in folder No. F-192—sent free upon request.

• No. 460 Power Chain (Lightweight) Conveyor

The No. 460 Continuous Power Chain Conveyor is a lightweight system and has the capacity of 8½ pounds or less on 6" centers. This conveyor is ideal where a 2035 "Zig-Zag" Conveyor would be too big an operation.

The 460 is limited to a 200 foot layout running on a single drive unit.

The No. 460 was designed because of the need for a conveyor to handle lightweight parts.

More detailed information and illustrations are shown in catalog No. A-96—sent free upon request.
Patent No. 2,784,833 Canada Patented 1959

• "Safe-Rail" (Free Trolley) Track Systems

MODERN — STREAMLINED — 1000 POUNDS MAXIMUM CAPACITY

The 2035 safe-rail track was originally developed as a supplement to the ZIG-ZAG power conveyor and formed the perfect companion for the majority of pusher conveyor and "Twin-Trak" applications.

The basic component parts such as straight track, curves, brackets, and drop fittings are identical with those used for the famous ZIG-ZAG conveyor.

More detailed information and illustrations are shown in catalog No. A-94—sent free upon request.

• Trolley Track Conveying Equipment

R-W Industrial Trolley Track conveying equipment operates in much the same manner as the "Safe-Rail" Trolley Track conveyor . . . because of the track construction trolley track conveyors permit use of less expensive carriers.

Trolley track comes in three sizes of track—Nos. 75, 175 and 375 having capacities of 500 and 3000 pounds.

Trolley track systems have been successfully employed for many years in handling of all kinds of materials.

More detailed information and illustrations are shown in catalog No. A-82—sent free upon request.

• "Tru-Tred" I-Beam Conveyor

"Tru-Tred" follows much the same design as a conventional I-Beam system . . . But R-W gives a .40 to .50 carbon manganese track with a .60 - .90 carbon content to provide the customer with 170 to 230 Brinell Hardness in each foot of Richards-Wilcox "Tru-Tred" track . . . from this you can expect a low peening factor.

Running surfaces are machine ground to exact bevel, removing surface scale and providing a smooth running surface for both trolleys and cranes.

R-W "Tru-Tred" track is not to be confused with structural members sharing similarity of design.

More detailed information and illustrations are shown in catalog No. A-64—sent free upon request.

• No. 458 Overhead Chain Conveyor

Capacity 675 lbs. per foot

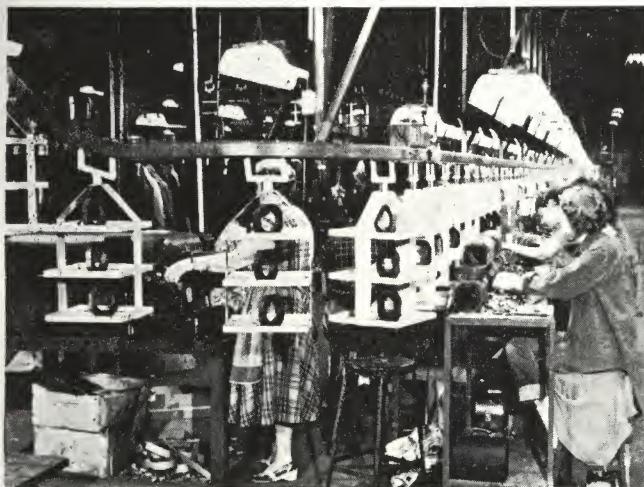
The No. 458 Overhead Chain Conveyor has long been the work horse of American industry . . . many diversified types of industry employ the use of this type conveyor.

The No. 458 Conveyor Chain is a Keystone Rivetless type, supported by load carrying trolleys rolling on the lower flanges of a 4-inch I-Beam Track.

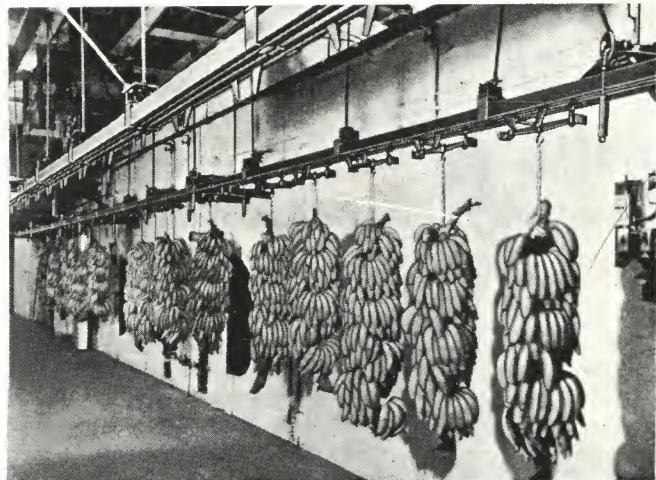
The chain is mechanically propelled by a caterpillar type drive unit . . . available in a constant or multi-drive unit.

No. 458 Conveyor is not only adaptable to the conventional method of operation . . . but is becoming common place as an Overhead "Tow" type Conveyor used for distributing incoming merchandise and for delivery from stock to packing for outgoing shipments. No. A-570—sent free upon request.

Handling Line



2035 "Zig-Zag"



"Twin-Trak"



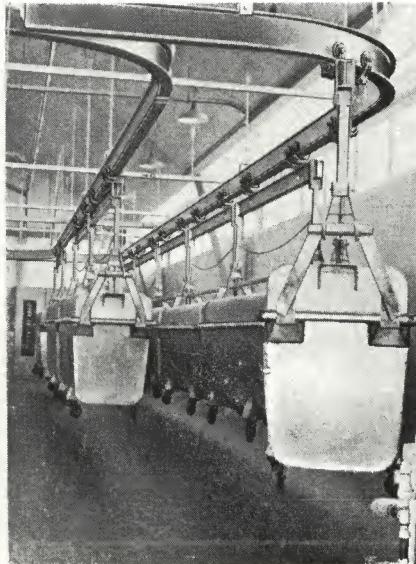
460 Conveyor



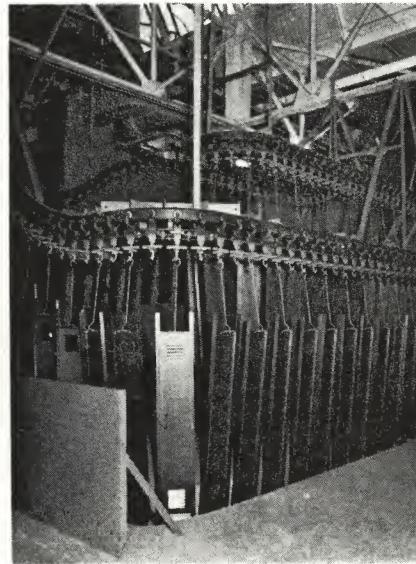
"Safe-Rail"



Trolley Track



"Tru-Tred"



458 Conveyor

Richards-Wilcox

FoldeR-Way®

SOUND INSULATING and SOUND RETARDING

Partitions

for gymnasiums • auditoriums • school and church classrooms • lodge halls

ELECTRICALLY OR MANUALLY OPERATED

... a real answer to some of the problems of today's high construction costs! R-W FoldeR-Way partitions shave costs from the beginning — by permitting versatile and extensive use of every available foot of floor area in planning. In schools, churches, hotels, restaurants — for gymnasiums, auditoriums, classrooms, stages, swimming pools — FoldeR-Way partitions provide space-saving, profitable dividers for wide-open areas, selectively barring passage of sound, light and traffic.

Backed by seventy-five years of practical manufacturing experience, Richards-Wilcox offers a complete line of folding partitions — an answer to every problem. Outstanding installations in all parts of the country attest the popularity and practicality of FoldeR-Way partitions, automatically and manually operated. They can be furnished in all types and combinations of wood, vinyls, metals, or duck coverings to meet the most exacting decorating specifications.

Let your factory-trained R-W engineer survey your problem and recommend the right FoldeR-Way partition for the task. Contact the nearest Richards-Wilcox branch office.

FULL SPECIFICATIONS AND DETAILS SHOWN IN FOLDER F-214

Four way FoldeR-Way partition. Janesville, Wisconsin Senior High School. Law, Law, Potter & Nystrom, Architects



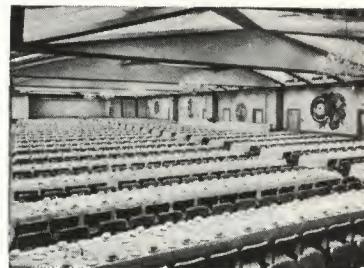
partitions folded



West Senior High School
Aurora, Illinois
Architects: Childs & Smith
Chicago, Illinois



University of Pittsburgh
Pittsburgh, Pennsylvania
Architects: Schmidt, Garden & Erickson, Chicago, Illinois



Hall of States
Hotel Leamington
Minneapolis, Minn.



Grace McWayne School
Batavia, Illinois
Architect: Raymond A. Orput
Rockford, Illinois



Instruction area
U.S. Army Staff
and Command School

partitions in place



The first folding aluminum gym partition anywhere.
Deluxe automatic, R-W
No. 200 panels



Deluxe automatic
Specially veneered No. 368CC
Panel with chalkboard



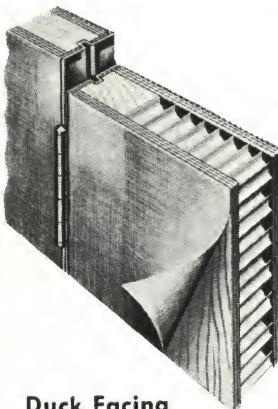
No. 135 top supported
center hung, No. 368
panels. Special application



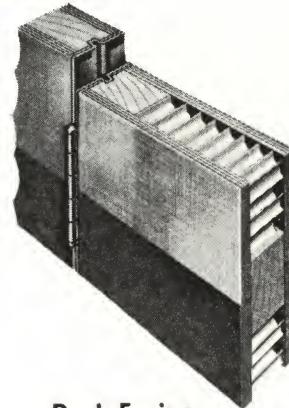
No. 237 top supported
edge hung installation
No. 368 panels with chalkboard



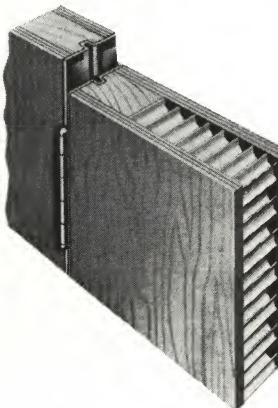
Four way partition.
No. 535 operation, floor
supported, No. 368B panels



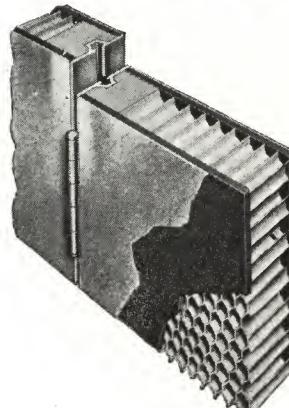
Duck Facing



Duck Facing



Plywood Facing



Aluminum Facing

operating equipment

• ELECTRICALLY OPERATED

R-W Deluxe fully automatic partition • top hung

power unit — Electrical equipment includes UL approved motor, speed reducer, magnetic brake, relay, friction clutch, limit switches and key switch with OPEN-STOP-CLOSE control. Unit is wired, assembled and ready for connection to power source. Emergency release provided permits manual operation in case of temporary power failure. Power unit assures correct operation under all conditions, eliminating entirely the human element.

• MANUALLY OPERATED

R-W No. 135 top-hung partition • height as required

Operating equipment includes four-wheel ball bearing adjustable hangers, lock joint enclosed track, steel supporting brackets, flush pulls, flush bolts, hinges and all operating devices for jamb and pocket doors. Hangers are located at each alternate full width door. Hardware correctly scaled to weight and size of doors.

R-W No. 237 top-hung partition • to 10' high

Operating equipment includes adjustable two-wheel ball bearing hangers, self-adjusting floor guides, R-W lock-joint enclosed track, steel supporting brackets, flush pulls, flush bolts, and either butt or invisible hinges. Hangers are located at outside corner of each panel pair.

R-W No. 535 floor bearing partition • height as required

Operating equipment includes steel top and bottom tracks, adjustable bottom rollers, top guides, pivots, spring expansion units, safety folding-locking mechanism, and either butt or invisible hinges. Each pair of doors is carried on two bottom rollers.

Richards-Wilcox

"In-A-Wall"

Wardrobes (Wood or Steel)

... a real answer to some of the problems of today's high construction costs! R-W "In-A-Wall" Wardrobes shave costs from the beginning — by permitting versatile and extensive use of every available foot of floor area in planning.

Backed by seventy-five years of practical manufacturing experience, Richards-Wilcox offer a complete line of wardrobes — an answer to every problem. Outstanding installations in all parts of the country attest the popularity and practicality of "In-A-Wall" Wardrobes—pair, multiple and individually operated. They can be furnished in all types and combinations of wood or metal, to meet the most exacting decorating specifications.

Let your factory-trained R-W engineer survey your problem and recommend the right "In-A-Wall" Wardrobes for the task. Contact the nearest Richards-Wilcox branch office.

design

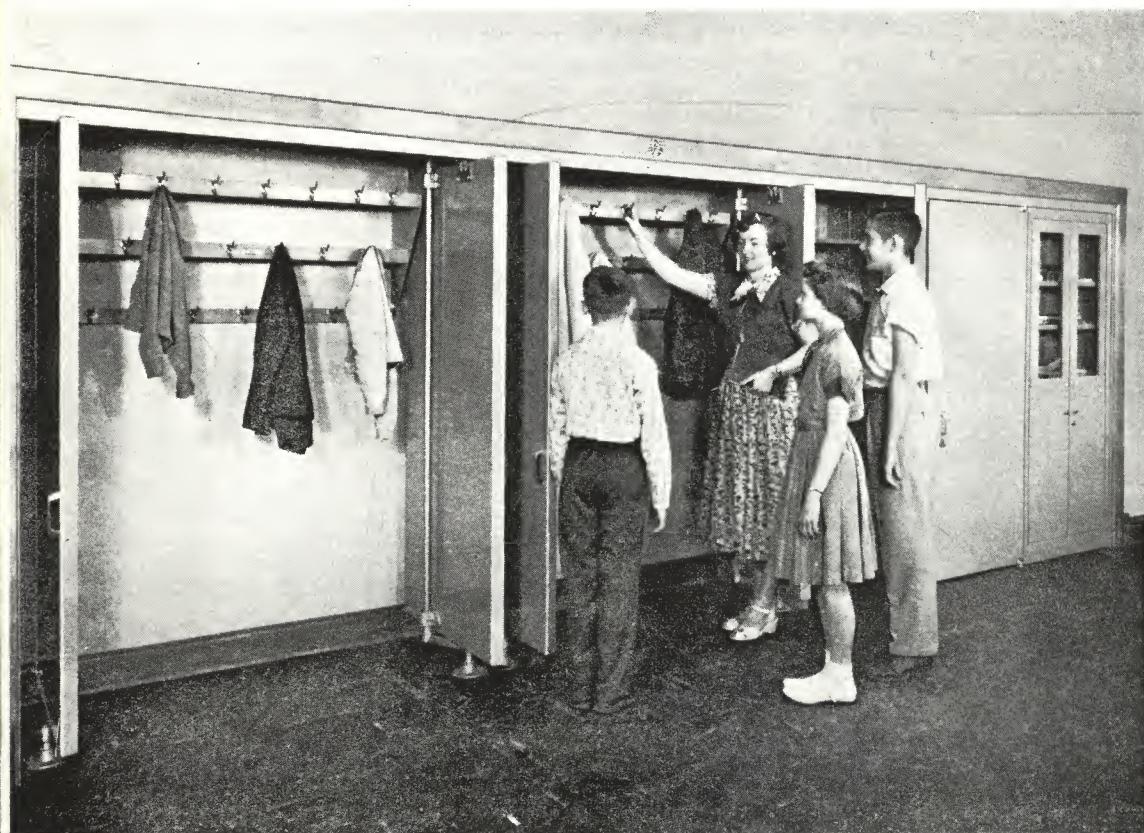
Competent Richards-Wilcox engineers are ready to survey your wardrobe problems and recommend the "In-A-Wall" Wardrobe to produce the desired result. Years of research engineering and manufacturing experience go into the design of each R-W Wardrobe.

production

Extensive modern plant facilities and equipment, coupled with painstaking quality control, enable Richards-Wilcox to produce a complete line of unexcelled wardrobes for every purse and purpose. Materials for each component of every wardrobe are carefully selected for maximum performance and minimum upkeep. Their assembly assures a wardrobe of lasting satisfaction.

R-W guarantee

Upon completion of the installation of any R-W "In-A-Wall" wardrobe, the Richards-Wilcox Manufacturing Company will furnish a written guarantee covering satisfactory workmanship, materials, installation, and operation.



With today's high construction costs it is imperative that all available wall space be utilized to best advantage. The "In-A-Wall" Wardrobes may be equipped with either cork bulletin boards or chalk boards and chalk rails as desired. Cork board and chalk board are available in various sizes and colors . . . for complete color harmony pick a color to complement the wardrobe units and surrounding interior decorations.

Fill Your Exact Requirements Easily . . .



Styles Available

- **NO. 785 "IN-A-WALL" WOOD OR STEEL CLASSROOM WARDROBES. (Individual Operation.) CATALOG A-610**
- **NO. 883 WOOD OR STEEL CLASSROOM WARDROBES (Multiple Operation.) FOLDER F-212**
- **NO. 781 WOOD CLASSROOM WARDROBES. (Pair Operated.) FOLDER F-212**
- **"VERTICAL-LIFT" WARDROBES. WOOD OR ALUMINUM. FOLDER F-186**

Richards-Wilcox Wardrobes . . . Offers You

- **Effective Ventilation.**
- **Easy Installation.**
- **Simple Operation.**
- **Years of Craftsmanship Behind Every R-W Wardrobe.**

Airplane Hangar Door Equipment

MAKE YOUR DOORS AND HARDWARE 100% R-W

Richards-Wilcox has manufactured large doors for a great number of large openings . . . Not only do we manufacture the doors themselves, but also manufacture many styles of hardware in our own factory, under one roof, assuring the customer that both doors and hardware are "made for each other."

For detailed information on all R-W Airplane doors and hardware, see Catalog No. 440.

MANY TYPES OF DOOR CONSTRUCTION

Richards-Wilcox features many styles of door construction. Included in these are: corrugated steel, laminated wood section door with rugged steel angles . . . newly introduced is an aluminum hangar door.

This new aluminum door provides a new concept in modern styling and dependable, efficient operation by combining the latest in structural design with the added strength and beauty of aluminum.

R-W aluminum hangar doors are a rigid sandwich type structure. Each panel consists of an extruded aluminum frame and a resin impregnated honeycomb core to which is permanently bonded the embossed aluminum facings.

ELECTRICALLY OR MANUALLY OPERATED

R-W Electric "Aut-O-Dor" operators were designed and developed to economically meet the requirements of today's industry . . . and, most important, to fulfill these requirements for years to come.

We sincerely advise and invite your comparison of R-W Electric "Aut-O-Dor" operators against all other automatic door openers on the market . . . you can't buy a finer automatic door opener than a R-W Electric "Aut-O-Dor" Operator.



● PARTIALLY OPEN



● CLOSED

ABOVE INSTALLATION

The above photos show the newly designed aluminum hangar doors recently introduced by Richards-Wilcox Manufacturing Co. This particular installation which is a bi-parting sliding type is electrically operated by an R-W "Aut-O-Dor" operator. This is a No. 1266 with a special fluid drive operation. The fluid drive gives all the doors smooth acceleration when starting, saving wear and tear on door hardware.

Rolling Ladders

- Ceiling
- Rolling Floor

Many styles of ladders are featured by Richards-Wilcox . . . whether you're buying a ceiling ladder for your store or buying a rolling floor safety ladder.

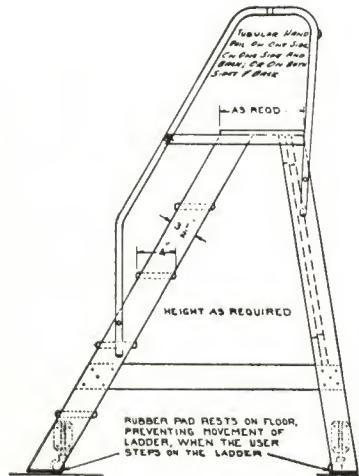
R-W ladders are made from high quality material with over 75 years of craftsmanship behind us . . . you can look for high quality if it is made by R-W.

A complete catalog will be sent to you merely for the asking which illustrates all types of operations. Ask for catalog No. 430.

Rolling Floor

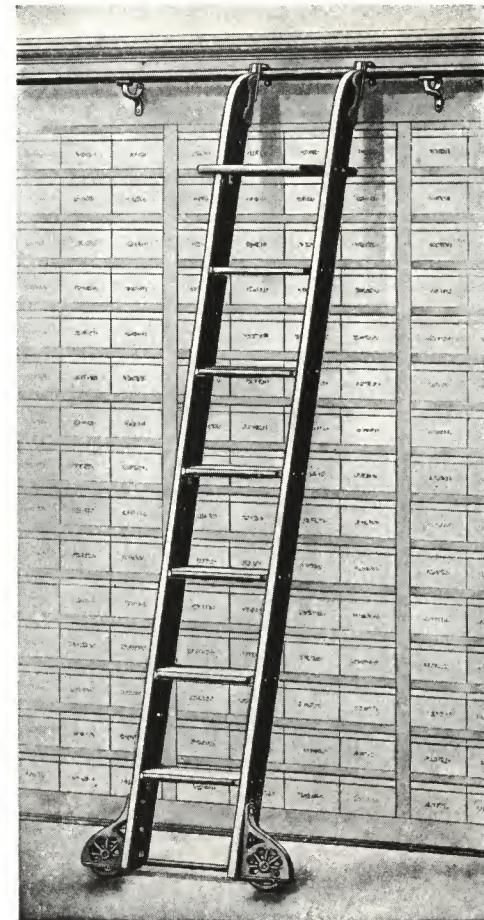
The R-W rolling safety ladder is one of the most versatile of all ladders for use where a portable type is desired. This style is available with or without hand rails having either swivel or fixed casters.

This type as all R-W ladders are made special as to height. Widths are determined by height unless specified by the buyer.

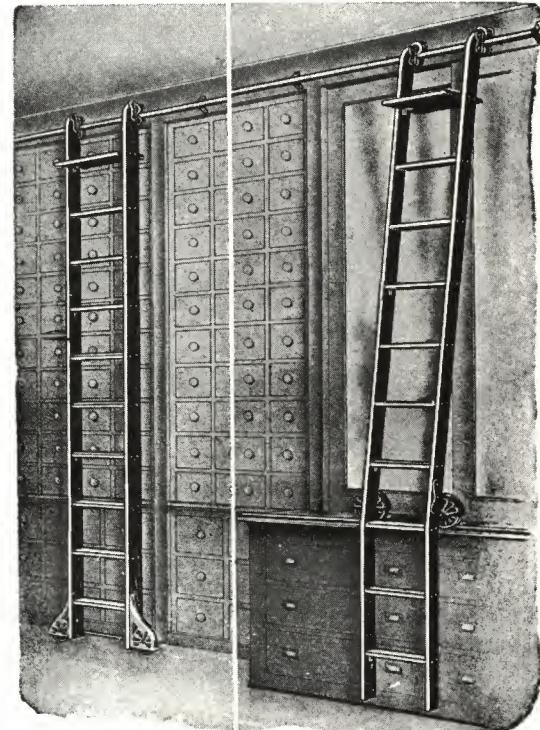


Automatic Self Brake

For use on all ceiling type ladders. With this type automatic self-brake, your accident rate will be lessened. When a person steps on the first rung the ladder is automatically set so it will not slip causing an accident . . . When the person steps off the ladder it raises, thus making it easy to push from one point to another.

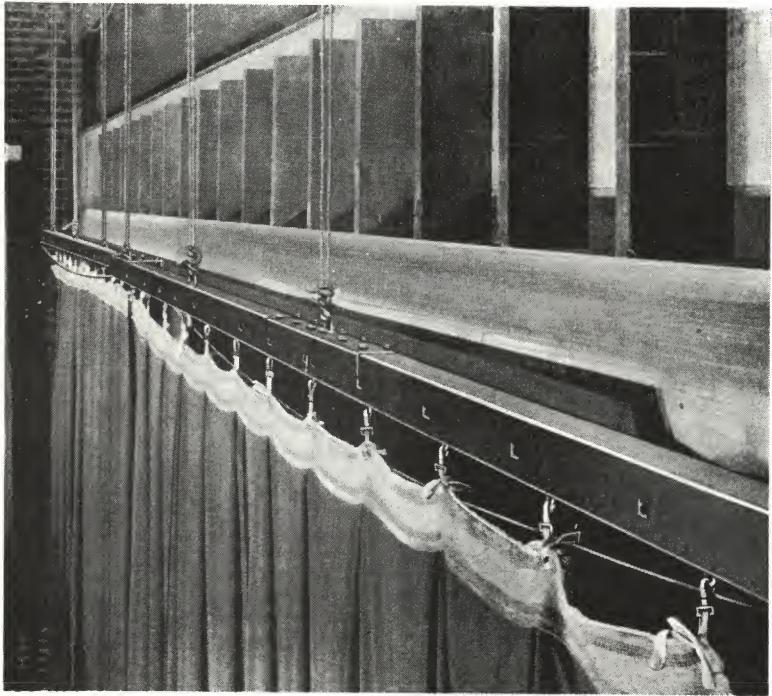


No. 116 Portable Store Ladder.



Nos. 114 and 117 at left, Nos. 114-B and 117-B at right. The only difference in these ladders is in the upper track No. 114 being a pole, the No. 117 being made of steel.

Stage Curtain Equipment



Outstanding Features

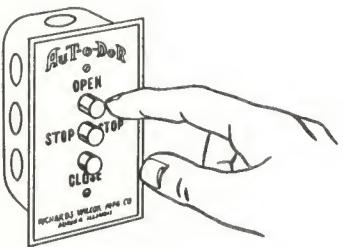
- Electric or manual operation.
- Complete engineering service available to meet your exact needs.
- Many styles of operation are available to solve any problem.
- Sidewall or overhead attachment suspension of track.

MANUAL OR ELECTRIC OPERATION

Curtain track installations are not confined to theatres and schools as there are many types of buildings where small or large stages are used. In cases of large openings or where electrically operated curtains are desired Richards-Wilcox have manufactured for over 45 years a quality built electric operator for this type of operation.

Various styles are featured by R-W and can be found in the supplementary catalog No. 450.

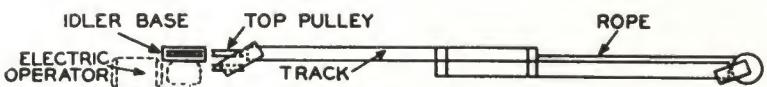
Above photo is a typical view of an R-W curtain track installation. The curtains are in the closed position across the stage proper. The track is suspended from the ceiling by chains or cables. Often times this is done because of insufficient space to attach by side brackets.



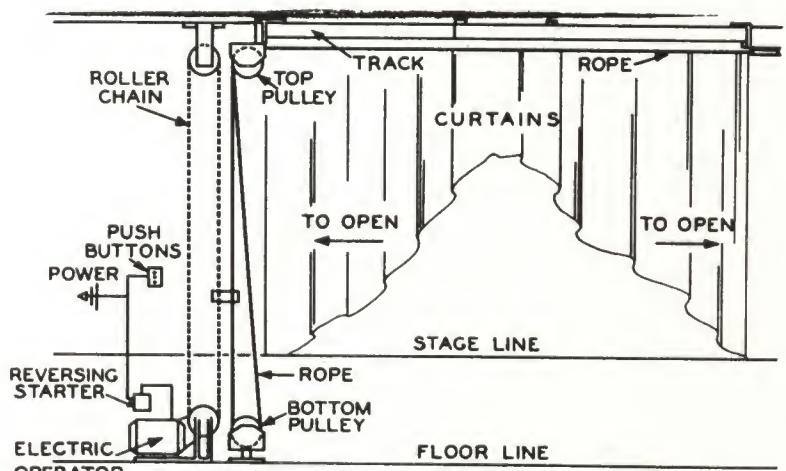
ELECTRICALLY OPERATED

When next planning an installation of stage curtain equipment . . . call the R-W engineer . . . nearest you. He is most qualified to suggest the style of operation best suited for you . . . at the same time possibly saving you many dollars.

A colorful 12 page catalog No. 450 is yours simply for the asking which fully illustrates all of the styles of operation offered by Richards-Wilcox . . . The Name Quality Built.



PLAN VIEW



TYPICAL MOTORIZED CURTAIN LAYOUT

R-W Open Front Hardware

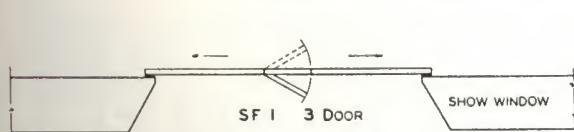


A QUAIN VILLAGE MARKET

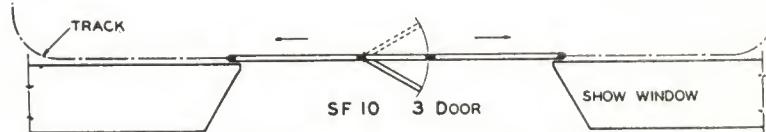
The line drawings below illustrate the basic arrangements that can be used with this type hardware. All installations are especially engineered usually starting from the basic designs shown below.

See the R-W engineer nearest you — he will show you how to make your place of business more appealing with the use of R-W Open Front Hardware.

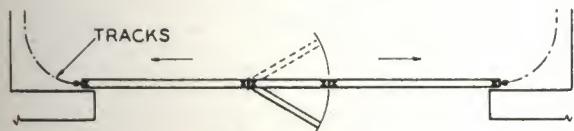
Create an indoor-outdoor atmosphere that will pay high dividends at low up-keep costs.



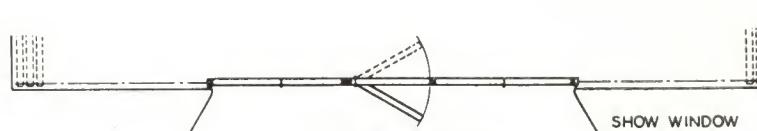
SINGLE AND PARALLEL TYPE



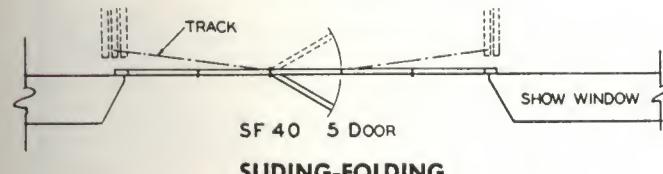
AROUND THE CORNER TYPE



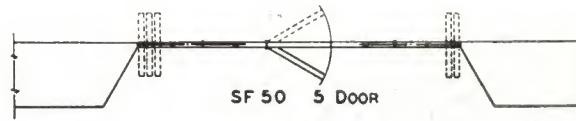
AROUND THE CORNER TYPE



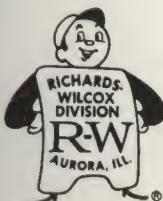
FOLDING TYPE



SLIDING-FOLDING



FOLDING TYPE



Required data for layouts

- State Preference of Style-Layout Desired . . . From Above Drawings.
- Architectural Details of Building Required for Area of Installation.
- Give Weight, Height and Width of Doors to Be Used.

The Modern Way to Create Outdoor-Indoor Atmosphere

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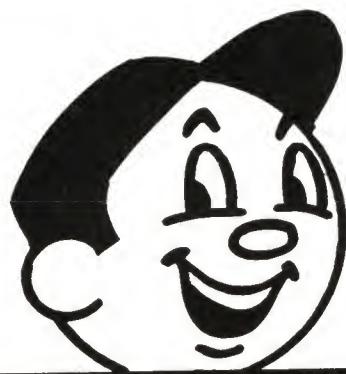
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